

Safety Data Sheets

Justice Court



RSC, Sierra Vista

11/26/2019



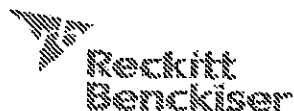
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Windex Powerized foaming glass & Multi-Purpose Cleaner (Aerosol) - Windex Powerized foaming glass & Multi-Purpose Cleaner (Aerosol)		S.C. Johnson Commercial Markets, Inc.	05/15/2002	192
Wonder Mist Spray Lubricant and Corrosion Inhibitor - Wonder Mist Spray Lubricant and Corrosion Inhibitor		AMWAY CORPORATION	09/08/1995	196



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name

AIR WICK® Air Freshener (Aerosols All Scents)

CAS #

Mixture

This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).

This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

Air freshener

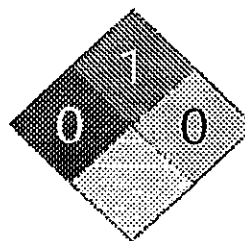
Product Use

Distributed by

Reckitt Benckiser
Morris Corporate Center IV
399 Interpace Parkway
P.O. Box 225
Parsippany, NJ 07054-0225
In Case of Emergency: 1-800-338-6167
Transportation Emergencies: 24 Hour Number:
North America: CHEMTREC: 1-800-424-9300
Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	1	0
Flammability	1	
Physical Hazard	0	
Personal Protection	B	



2. Hazards Identification

Emergency overview

CAUTION

EYE IRRITANT. Prolonged or frequent skin contact may cause an allergic reaction. CONTENTS UNDER PRESSURE.

DO NOT spray towards face. Avoid contact with eyes and skin. CONTAINER MAY EXPLODE IF HEATED. Do not puncture or incinerate container. DO NOT expose to heat or store at temperatures above 120°F (49°C) as the container may burst.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation.

Eyes

None expected during normal conditions of use.

May cause eye irritation upon direct contact with the eyes.

Skin

None expected during normal conditions of use.

Prolonged or frequent skin contact may cause an allergic reaction.

Inhalation

None expected during normal conditions of use.

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Ingestion

Health injuries are not known or expected under normal use.

Target organs

Eyes.

Chronic effects

The finished product is not expected to have chronic health effects.

Signs and symptoms

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

OSHA Regulatory Status

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects

This product has not been tested.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Propane	74-98-6	7 - 13
Butane	106-97-8	10 - 30
Ethane, 1,1-difluoro-	75-37-6	10 - 30

4. First Aid Measures

First aid procedures

Eye contact

If in eyes, IMMEDIATELY rinse eyes with plenty of water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.

Skin contact

If on skin, wash with soap and water. If irritation develops, get medical attention.

Inhalation

Move to fresh air in case of accidental inhalation of vapors.

Ingestion

Rinse mouth with water and drink afterwards plenty of water. DO NOT INDUCE VOMITING.

Notes to physician

Treat patient symptomatically.

General advice

Do not puncture or incinerate container. Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

5. Fire Fighting Measures

Flammable properties

Non-flammable aerosol by flame projection test.

NFPA AEROSOL LEVEL: Flammability Rating 1, per NFPA 30B

Extinguishing media

Suitable extinguishing media

Dry chemical. Foam.

Unsuitable extinguishing media

Water. Water spray.

Protection of firefighters

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep unnecessary personnel away.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

Do not contaminate water.

Do not allow material to contaminate ground water system.

Advise authorities if product has penetrated drains, sewers or water pipes.

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling

Ensure adequate ventilation.
DO NOT spray towards face.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn after use. Keep away from all sources of ignition. Fires involving aerosols with flammable contents are severe and can spread quickly. Warehouses or stores containing aerosols should therefore be separated from other areas by a fire resistant construction. Stores should be well ventilated. The natural ventilation in a large open warehouse building will normally be suitable.
Do not spray on a naked flame or any other incandescent material.
Use good industrial hygiene practices in handling this material.
When using do not eat or drink.
Wash hands before breaks and immediately after handling the product.

Storage

DO NOT expose to heat or store at temperatures above 120°F (49°C) as the container may burst.
Do not puncture or incinerate container.
CONTAINER MAY EXPLODE IF HEATED.
Keep away from heat, open flames or other sources of ignition.
Store in a cool place.
Keep out of reach of children.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

8. Exposure Controls / Personal Protection

Exposure limits**Ingredient(s)****Exposure Limits****Butane**

ACGIH-TLV
TWA: 1000 ppm
OSHA-PEL
Not established

Ethane, 1,1-difluoro-

ACGIH-TLV
Not established
OSHA-PEL
Not established

Propane

ACGIH-TLV
TWA: 1000 ppm
OSHA-PEL
TWA: 1000 ppm

Engineering controls

Provide adequate ventilation.

Personal protective equipment

Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.

Eye / face protection

Not required under normal use conditions. Emergency responders should wear full eye and face protection.

Hand protection

No special requirements under normal use conditions. Emergency responders should wear impermeable gloves.

Skin and body protection

No special requirements under normal use conditions. Prolonged or frequent skin contact may produce an allergic reaction in some individuals.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean up operations.

General hygiene considerations

Avoid contact with skin, eyes and clothing. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

Appearance	Aerosol.
Color	Clear
Form	Misty spray
Odor	Characteristic
Odor threshold	Not available
Physical state	Gas
pH	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available

10. Stability and Reactivity

Reactivity	This product may react with oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition. Protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Extremes of temperatures can occur in cars and near ovens and fireplaces. Do not place in contact with hot surfaces or near naked flames. Do not pierce or burn after use. Do not spray on a naked flame, onto or near a fire, or any incandescent material such as an electric fire. Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatible materials	Caustics. Oxidizers. Acids.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Butane	Not available
Ethane, 1,1-difluoro-	> 64000 ppm rat
Propane	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Butane	Not available
Ethane, 1,1-difluoro-	1500 mg/kg rat
Propane	Not available
Effects of acute exposure	
Eye	None expected during normal conditions of use. May cause eye irritation upon direct contact with the eyes.
Skin	None expected during normal conditions of use. Prolonged or frequent skin contact may cause an allergic reaction.
Inhalation	None expected during normal conditions of use. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Ingestion	Health injuries are not known or expected under normal use.
Sensitization	The finished product is not expected to have chronic health effects.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.
Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	This product has not been tested.
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Container disposal: Empty containers may be included with domestic refuse for disposal to a landfill. This container may also be recycled in communities where aerosol container recycling is available. Before offering for recycling, empty the can or use the product according to the label instructions.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN 1950, Aerosols, Class 2.1, Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN 1950, Aerosols, Class 2.1, Limited Quantity

IMDG (Marine Transport)

UN 1950, Aerosols, Class 2.1, Limited Quantity

IATA/ICAO (Air)

UN 1950, Aerosols, Flammable, Class 2.1

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - Yes
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Butane 106-97-8 Present

U.S. - Massachusetts - Right To Know List

Butane 106-97-8 Present

Ethane, 1,1-difluoro- 75-37-6 Present

Propane 74-98-6 Present

U.S. - Minnesota - Hazardous Substance List

Butane 106-97-8 Present

Propane 74-98-6 Simple asphyxiant

U.S. - New Jersey - Right to Know Hazardous Substance List

Butane 106-97-8 sn 0273

Ethane, 1,1-difluoro- 75-37-6 sn 0715

Propane 74-98-6 sn 1594

U.S. - Pennsylvania - RTK (Right to Know) List

Butane 106-97-8 Present

Propane 74-98-6 Present

U.S. - Rhode Island - Hazardous Substance List

Butane 106-97-8 Toxic; Flammable

Propane 74-98-6 Toxic; Flammable

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information

AIR WICK® 4-In-1 Air Freshener - Apple Cinnamon Medley, 8 oz - 0.188360v2.0
AIR WICK® 4-In-1 Air Freshener - Cool Linen & White Lilac, 8 oz - 0192143v2.0
AIR WICK® 4-In-1 Air Freshener - Fresh Waters, 8 oz - 0192143v2.0
AIR WICK® 4-In-1 Air Freshener - Lavender & Chamomile, 8 oz - 0121604v2.0
AIR WICK® 4-In-1 Air Freshener - Magnolia & Cherry Blossom, 8 oz - 0188398v2.0
AIR WICK® 4-In-1 Air Freshener - Papaya & Mango, 8 oz - 0188364v2.0
AIR WICK® 4-In-1 Air Freshener - Rain Garden, 8 oz - 0188387v2.0
AIR WICK® 4-In-1 Air Freshener - Sparkling Citrus, 8 oz - 0188375v2.0
AIR WICK® 4-In-1 Air Freshener - Vanilla Indulgence, 8 oz - 0188341v2.0
AIR WICK® Air Freshener - Serene Waters (National Parks - Glacier Bay), 8 oz - 0192143v2.0
AIR WICK® Air Freshener - Tropical Sunset (National Parks - Hawaii), 8 oz - 0.188364v2.0
AIR WICK® Air Freshener - Vanilla Sugar Cookies (Festive Moments), 8 oz - 0299270v2.0
AIR WICK® Air Freshener - Warm Apple Pie (Festive Moments), 8 oz - 0340663v1.0

Issue date

26-Sep-2012

Effective date

15-Sep-2012

Prepared by

Reckitt Benckiser Regulatory Department 800-333-3899

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.



Product Safety Data Sheet

SECTION 1: IDENTIFICATION

Product Name: Alkaline Batteries (Not Labeled)

Duracell Designations:

Duracell Designation	Size	Nominal Voltage	IEC Designation
MN/MX2400	AAA	1.5V	LR03
MN/MX1500	AA	1.5V	LR6

Product Use: Energy Source

SDS Date of Preparation: May 5, 2016

Company Identification:

Duracell U.S. Operations, Inc.
Berkshire Corporate Park
Bethel, CT 06801 USA
Telephone: 203-796-4000
Email: duracellsds@duracell.com

Duracell U.S. Operations, Inc. - LaGrange Plant	Duracell U.S. Operations, Inc. - Cleveland Plant	Duracell U.S. Operations, Inc. - Lancaster Plant	Duracell Batteries BVBA - Aarschot Belgium Plant
1567 Lukken Industrial Drive West LaGrange, GA 30240 +1-706- 884-6171	501 Mouse Creek Road Cleveland, TN 37312 +1- 423- 478-6000	1551 Highway 9 Bypass Lancaster, SC 29720 +1-803-285-8401	Nijverheidslaan 1-7 B - 3200 Aarschot Belgium 0032(0)16 55 20 11

Emergency Phone Number: 1(800) 424-9300 for US and Canada (CHEMTREC)
+1 (703) 527-3887 for International Calls (call CHEMTREC collect)

SECTION 2: HAZARDS IDENTIFICATION

These products are classified as Articles under REACH and are not subject to the requirements for Information in the Supply Chain (Safety Data Sheets and Labels). While batteries may release hazardous substances if damaged, this is not an intended release as defined under REACH. Batteries are not classified as hazardous under the CLP.

These products are also classified as Articles under the US OSHA Hazard Communication Standard 29CFR 1910.1200, Canada WHMIS and the GHS. A Safety Data Sheet is not required for these products.

The following information is provided to assist in the safe use of our products.

CAUTION: Batteries may explode or leak, and cause chemical/thermal burn injury, if recharged, disposed of in fire, mixed with a different battery type, inserted backwards or disassembled. Do not carry batteries loose in your pocket or purse. Keep small batteries (i.e., AAA) away from children. If swallowed, consult a physician at once.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

These batteries consist of the chemicals listed below in a sealed can. No exposure occurs under normal conditions of use.

Chemical Name	CAS Number	EINECS Number	Amount
Manganese Dioxide	1313-13-9	215-202-6	30-45 %
Zinc	7440-66-6	231-175-3	10-25 %
Potassium Hydroxide (35%)	1310-58-3	215-181-3	5-15 %
Graphite (natural or synthetic)	7782-42-5	231-955-3	1-5%

SECTION 4: FIRST AID MEASURES

General Advice: The chemicals and metals in this product are contained in a sealed can. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

Eye Contact: If battery is leaking and material contacts the eye, flush thoroughly with copious amounts of running water for 30 minutes. Seek immediate medical attention.

Skin Contact: If battery is leaking and material contacts the skin, remove any contaminated clothing and flush exposed skin with copious amounts of running water for at least 15 minutes. If irritation, injury or pain persists, seek medical advice.

Inhaled: If battery is leaking, contents may be irritating to respiratory passages. Move to fresh air. If irritation persists, seek medical advice.

Swallowed: Do not induce vomiting. Seek medical attention immediately. **CALL NATIONAL BATTERY INGESTION HOTLINE** (located in the United States of America) **at +(202)-625-3333 collect, day or night.**

Note to Physician: Damaged battery will release concentrated potassium hydroxide, which is caustic.

SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Batteries may burst and release hazardous decomposition products when exposed to a fire situation.

Extinguishing Media: Use any extinguishing media that is appropriate for the surrounding fire.

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Batteries may burst and release hazardous decomposition products when exposed to a fire situation.

Hazardous Combustion Products: Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas, caustic vapors of potassium hydroxide and other toxic by-products.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPECIAL NOTE: In the event of transport incidents involving damage to the battery packaging, please see Emergency Information in Appendix A.

Notify safety personnel of large spills. Caustic potassium hydroxide may be released from leaking or ruptured batteries. Ventilate area. Carefully collect batteries and place in an appropriate container for disposal. Avoid eye and skin contact and inhalation of vapors and fumes. Clean-up personnel should wear appropriate protective clothing, such as:

- Chemical resistant gloves

- Protective clothing against splashing of corrosive products
- Safety Boots
- Goggle
- Face shield if there is a risk of splashing

SECTION 7: HANDLING AND STORAGE

Precautions To Be Taken in Handling: Batteries may explode, pyrolize or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. Do not mix battery systems, such as alkaline and zinc carbon, in the same equipment. Replace all batteries in equipment at the same time. Do not carry batteries loose in a pocket or bag.

Precautions To Be Taken in Storage: Store batteries in a dry place at normal room temperature. Do not refrigerate. Batteries must remain oriented as packaged and shipped. Batteries may short circuit if positive end is allowed to contact one another or any metal objects.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No exposure to the battery components should occur during normal use.

Ventilation: No special ventilation is needed for normal use.

Respiratory Protection: None required for normal use.

Skin Protection: None required for normal use. Use neoprene, rubber or latex gloves when handling leaking batteries.

Eye Protection: None required for normal use. Wear safety goggles when handling leaking batteries.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): AA and AAA size batteries which have a cylindrical (round) shape.

SECTION 10: STABILITY AND REACTIVITY

Stable under normal conditions of use. Contents are incompatible with strong oxidizing agents. Do not heat, crush, disassemble, short circuit or recharge .

SECTION 11: TOXICOLOGICAL INFORMATION

Potential Health Effects:

The chemicals and metals in this product are contained in a sealed can. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicity data is available. This product is not expected to present an environmental hazard. Does not contain any added mercury, cadmium or lead.

SECTION 13: DISPOSAL INFORMATION

Do not incinerate. Disposal should be in accordance with the EU Battery Directive 206/66/EC or local regulations.

SECTION 14: TRANSPORT INFORMATION

Alkaline battery products, covered by this SDS, in their original form, are considered “dry cell” batteries and are not regulated for transportation as “DANGEROUS GOODS.” However, special regulatory concerns apply that require batteries to be packaged in a manner that prevents the generation of a dangerous quantity of heat and short circuits.

Ground Transport (ADR/RID): NONE

Air Transport (IATA): NONE

Marine/Water Transport (IMDG/ICAO): NONE

SECTION 15: REGULATORY INFORMATION

EU Classification of Preparation: Not classified as a dangerous preparation

EU Battery Directive: Duracell alkaline batteries comply with the substance restriction limits and labeling requirements set forth in the **EU Battery Directive 2006/66/EC** and as a result contain <0.0005% (5 ppm) mercury, <0.002% (20 ppm) cadmium and <0.004% (40 ppm) lead. The chemical symbols Hg, Cd and Pb are therefore **not** required below the separate collection symbol.

EU RoHS Directive: Batteries are not subject regulation.

EU REACH: Subject battery products are “articles” under REACH and not subject to REACH registration or e-SDS requirements. To the best of our knowledge, Duracell alkaline batteries do not contain any of the 73 SVHC per the ECHA updated listed 12/19/2011.

EU Labeling: None required. Labeling is not required because batteries are classified as articles under both REACH and the Dangerous Preparations Directive and as such are exempt from the requirement for labeling.

US OSHA Status: While the finished product(s) is considered an article and not covered by the OSHA Hazard Communication Standard, 29 CFR 1910.1200, this PSDS contains valuable information critical to the safe handling and proper use of the product”.

EPA TSCA Status: All intentionally-added components of this product are listed on the US TSCA Inventory.

SARA 313/302/304/311/312 chemicals: Articles are not subject to reporting

California: This product has been evaluated and does not require warning labeling under California Proposition 65.

Canada: All intentionally-added components of this product are listed on the Canadian DSL. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this PSDS contains all information required by the Controlled Products Regulations.

SECTION 16: OTHER INFORMATION

Hazard Rating: Health: 0 Fire: 0 Reactivity: 0

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Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This Product Safety Data Sheet is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble Duracell to be dependable and is accurate to the best of the Company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Duracell assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

Appendix A

Emergency Information for Transport Incidents

Intervention procedure:

- a. Use caution when opening the truck in case of an accident, the load may have shifted. The required personal protective equipment should be worn.
- b. The batteries can short circuit and heat to a temperature of over 100°C.
- c. Caution, shorted cells can release amounts of hydrogen and carbon monoxide.
- d. Before entering the container, vent sufficiently with fresh air or take air measurements and prevent ignition sources.
- e. Before handling batteries, the proper personal protective equipment should be worn. This is to prevent direct contact with the batteries and (its) contents.
 - i. Chemical protective gloves
 - ii. Protective clothing against splashing of corrosive products.
 - iii. Safety boots
 - iv. Goggles
 - v. Face mask (shield) if there is a risk of splashing.

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND THE COMPANY

PRODUCT NAME:	Bar Keepers Friend Cleanser & Polish
RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:	Relevant identified uses: Cleans and/or polishes most hard, nonporous surfaces. Do not use on cast iron, granite, marble, wood, fabric, leather, painted surfaces, mirrors, gold, or silver (sterling silver is OK). Do not use where rinsing thoroughly is difficult, or impossible.
MANUFACTURER:	SerVaas Laboratories, Inc 5240 Walt Place Indianapolis, IN 46254 USA
CALL FOR PRODUCT TECHNICAL INFORMATION:	1-800-433-5818 (for USA callers) 1-317-636-7760 (for non-USA callers) www.barkeepersfriend.com
EMERGENCY TELEPHONE NUMBER(CHEMTREC):	1-800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MIXTURE:	Skin irritation 3 - H316 Eye irritation 2A - H319
LABEL ELEMENTS:	
SIGNAL WORD:	Warning
HAZARD PICTOGRAM:	
HAZARD STATEMENTS:	H316 Causes mild skin irritation H319 - Causes serious eye irritation
PREVENTION:	P264 Wash hands thoroughly after handling P280 Wear eye protection / face protection
RESPONSE:	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention. If medical advice is needed, have container at hand. P332+P313 If skin irritation occurs, get medical attention. If medical advice is needed, have container in hand.

SECTION 3 - COMPOSITION / INFORMATION ON THE INGREDIENTS

INGREDIENT	% By Weight	CAS Reg. No.
FELDSPAR*	Confidential	68476-25-5
LINEAR SODIUM DODECYL BENZENE SULFONATE (DDBSA)	Confidential	69669-44-9
OXALIC ACID	7.5 - 9.5	144-62-7

*not regulated as hazardous materials

SECTION 4 - FIRST AID MEASURES

IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention. If medical advice is needed, have container at hand.
IF INGESTED:	Drink milk or water and call a doctor. Do not induce vomiting. Get medical advice / attention. If medical advice is needed, have container at hand.
IF ON SKIN:	Wash with soap and water. If skin irritation occurs, get medical attention. If medical advice is needed, have container in hand.

SECTION 5 - FIREFIGHTING MEASURES

Not a fire hazard. Use extinguishing media appropriate for surrounding fire.

SPECIAL FIREFIGHTING INSTRUCTIONS:	Wear NIOSH approved self-contained breathing apparatus and protective clothing appropriate for a chemical fire. Cool fire-exposed containers with water spray. Oxalic acid may decompose to carbon monoxide (CO) and formic acid (HCOOH) in fire conditions.
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SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	For a small spill, wipe up with a mop, paper towels, or cloths. For large spills, use an absorbent such as kitty litter to contain spills. Carefully sweep up, raising a minimum amount of dust, and discard into a household waste container for disposal.
WASTE DISPOSAL METHOD:	Dispose according to the local, state, or federal regulations. Use baking soda to neutralize acid. Wear protective equipment as needed (see section 8).

SECTION 7 - HANDLING AND STORAGE

CONDITIONS FOR SAFE STORAGE:	Keep out of reach of children and domestic animals. Store in a dry place. Keep FROM FREEZING. DO NOT STORE WHERE TEMPERATURE MAY EXCEED 140° F.
CONDITIONS FOR SAFE USE:	Follow use directions on the label. Apply a small amount onto a wet surface or a damp cloth or sponge, then rub gently. Do not mix with other chemicals including bleach or ammonia. Wash hands after use. For prolonged use or sensitive skin, wear waterproof gloves. Respiratory protection is not normally required except as described for firefighting, or if the product is mixed with bleach or ammonia.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

PRIMARY ROUTES OF EXPOSURE: Dermal contact, hand-to-eye contact. In case of eye contact, see Section 4, First Aid.

ACCIDENTAL OR DELIBERATE INGESTION: Bar Keepers Friend Cleanser & Polish is of minimal oral toxicity. For ingestion of a large quantity, see Section 4: First Aid.

INDIVIDUAL PROTECTION MEASURES: Prolonged contact may product dry skin or irritation in some individuals. For prolonged contact or sensitive skin, wear protective gloves (e.g. those meant for household cleaning.)

EXPOSURE LIMITS: Oxalic acid: ACGIH TLV/ OSHA PEL/ NIOSH REL 1 mg/M3 (TWA) 2 (STEL).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid (powder)	COLOR: white
ODOR: negligible	pH: 1.5 to 2.5(depending on typical dilution)
FREEZING: NA	BOILING POINT: NA
FLASH POINT: not flammable	EVAPORATION RATE: . . . NA
SPECIFIC GRAVITY: 0.85 - 0.95	SOLUBILITY: Oxalic acid and surfactant are soluble in water.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: Stable

REACTIVITY: Incompatible with chlorine bleach, ammonia, and alkaline products.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxalic acid may decompose to carbon monoxide (CO) and formic acid (HCOOH) in fire conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

OXALIC ACID: Oral LD50 >7500 mg/kg (rat)
Dermal LD50 not determinable
Eye irritant
Slight skin irritant
Inhalation LD50 not determined
Non sensitizer

DDBSA Moderate skin and eye irritant

SECTION 12 - ECOLOGICAL INFORMATION

Bar Keepers Friend Cleanser & Polish is of minimal risk to terrestrial wildlife.

Oxalic acid and DDBSA are water soluble. Dissolution of these substances into bodies of water may cause short-term risk to fish and other aquatic organisms. Dissipation in the environment is rapid.

In case of spill, prevent runoff into bodies of water. Clean up spills as described in Section 6.

SECTION 13 - DISPOSAL CONSIDERATIONS

Bar Keepers Friend Cleanser & Polish may be disposed of in household garbage.

SECTION 14 - TRANSPORT INFORMATION

NOT REGULATED BY DOT.

DOT TRANSPORTATION NUMBER:	Not applicable
PACKING GROUP:	Not applicable
MARITIME INFORMATION:	Not applicable
HAZARDOUS SUBSTANCES REPORT QUANTITY:	Not applicable
TDG CLASSIFICATION:	Consumer Commodity-Transborder Consignment
ADR CLASSIFICATION:	Not applicable
IMDG CLASSIFICATION:	Not regulated
IATA CLASSIFICATION:	Does not qualify in manufactured case lot size

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL AND STATE REGULATIONS:	SARA Title III Section 313 Toxic Chemical Notification &
RELEASE REPORTING:	None
OTHER CLASSIFICATION:	Not controlled under WHMIS (Canada)

SECTION 16 - OTHER INFORMATION

NFPA	Health Hazards: 2	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 2	Flammability: 0	Physical Hazards: 0	

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of SerVaas Laboratories, Inc. knowledge. SerVaas Laboratories, Inc. makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. SerVaas Laboratories, Inc. disclaims all liability for injury or damage stemming from any improper use of the material or product described herein.

Revision Date: June 12, 2015

Supersedes document dated: 5/15/2015

Prepared by: P. SerVaas, SerVaas Laboratories, Inc.

1. Product and Company Identification

Product Name:	BISSELL Carpet Cleaner		
Product Number:	0920C, 0920Y, 0921		
Chemical Formula:	Mixture		
Manufacturer:	24-Hour Emergency Phone Numbers:		
BISSELL Homecare, Inc.	Prosar	1 866-303-6951	
PO Box 1888	Chemtrec	1 800-424-9300	
Grand Rapids, MI 49501			
(616) 453- 4451			

2. Composition Information on Ingredients

<u>Ingredient</u>	<u>Percent</u>	<u>OSHA PPM</u>	<u>ACGIH PPM</u>	<u>CAS Number</u>
Isobutane	<5%	TLV 1000		75- 28- 5
Propane	<5%	TLV 1000	TLV 1000	74- 98- 6

Also Contains surfactants, acrylate polymer, fragrance and water.

3. Hazard Identification

Emergency Overview: KEEP OUT OF REACH OF CHILDREN,
Contents Under Pressure

Potential Health Effects:

Eye:	Contact with eyes may cause irritation.
Skin:	Prolonged contact with skin may cause mild irritation.
Inhalation:	Inhalation is not expected route of exposure. Inhalation of product mist or spray may cause respiratory irritation.
Ingestion:	Ingestion of small amount may cause gastrointestinal irritation, and more serious effects are possible if large quantities are swallowed.

4. First Aid Measures

Eye:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.
Skin:	Wash skin with water. Remove contaminated clothing.
Ingestion:	If swallowed, call a physician or poison control center. Do NOT induce vomiting or give anything to drink unless instructed to do so by a physician. Never give anything by mouth to an unconscious person.
Inhalation:	Remove affected person to fresh air. Get medical attention if person has difficulty breathing or irritation develops or persists.

5. Fire Fighting Measures

Flash Point:	Mixture is not flammable.
Flammability limits:	None.
Extinguishing Media:	Use water, water fog, CO2, dry chemicals or foam.
Fire and Explosion Hazards:	Aerosol cans may burst if exposed to heat in excess of 120°F. NFPA 30B- Level 1 Aerosol.
Fire Fighting Equipment:	Water may be used to cool closed containers and prevent pressure build up and possible bursting. Fire fighters should wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

Small Spills:	Absorb and wipe up or rinse away with water.
Large Spills:	Contain spilled product with sand or other absorbent material. Place in an appropriate container for disposal. Wash area with water.

7. Handling and Storage

Handling:	Use only as directed. Avoid contact with eyes. Use with adequate ventilation. Wash hands before eating.
Storage:	Store Out Of Reach Of Children. Do not store in direct sunlight, or at temperatures exceeding 120°F. NFPA 30B- Level 1 Aerosol.

8. Personal Protection

Respiratory Protection:	Not required under conditions of use.
Protective Gloves:	Not required under conditions of use.
Eye Protection:	Not required under conditions of use.
Ventilation:	Not required under conditions of use.

9. Physical and Chemical Properties

Appearance:	Aerosol Spray
Odor:	Characteristic Fragrance
Boiling Point 760 mm Hg:	212°F
Vapor Pressure:	52- 58 psi (Propellant)
Vapor Density:	Is heavier than air
Solubility in Water:	Complete
Specific Gravity:	1.0
pH:	10.0- 10.5
Percent VOC:	5%

10. Stability and Reactivity

Chemical Stability:	Stable
Conditions to Avoid:	Temperatures above 120°F (48.8°C). Do Not puncture or incinerate containers.
Incompatibility:	Avoid contact with strong oxidizing agents.
Hazardous Decomposition:	None known.
Hazardous Polymerization:	Will not occur.

11. Toxicological Information

Ingestion:	The oral LD50 is greater than 5 g/ kg in rats.
Inhalation:	The inhalation LC50 is greater than 20 mg/ L for one-hour exposure for laboratory animals.
Skin:	Not a primary dermal irritant (rabbit).
Eye:	Not an ocular irritant (rabbit).

The toxicity information listed above is based on the results of acute toxicological studies, per FHSA protocols, on a very similar predecessor formula. The differences between this formula and the predecessor formula would not be expected to significantly alter the toxicological attributes of the formulation covered in this document.

12. Ecological Information

Aquatic Toxicity:	No information available.
Environmental Effects:	Product is expected to rapidly disperse in the aquatic environment.

13. Disposal Consideration

Disposal of Product:	Disposal methods must comply with all Federal, State or Provincial, and local laws and regulations.
Disposal of Packaging:	Disposal methods must comply with all Federal, State or Provincial, and local laws and regulations.

14. Transportation Information

HMIS Hazard Rating:	Health: 0	Fire: 1	Reactivity: 1
Hazard Rating Scale: 0=Insignificant; 1=Slight; 2=Moderate; 3=High; 4=Extreme			
49 CFR (GRD):	CONSUMER COMMODITY, ORM-D		
IATA (AIR):	UN1950, AEROSOLS, 2.2, LTD QTY		
IMDG (OCN):	UN1950, AEROSOLS, 2.2, LTD QTY		
TDGR (Canadian GND):	LIMITED QUANTITY / QUANTITE LIMITEE		
ADR / RID:	UN1950, AEROSOLS, 2.2, LTD QTY, ADR		
MEXICO (SCT):	UN1950, AEROSOLE, 2.2, CANTIDAD LIMITADA		

15. Regulatory Information

California Prop 65:	None of the chemicals in this product are listed.
State Criteria Lists:	Isobutane is on the following States' criteria lists: MA, NJ, and PA.
WHIMS Classification:	Class A (Compressed Gases) and D2B (Other toxic effects- for surfactants).
DSL / NDSL:	All of the components are listed.
Priority Substances List:	None of the components are listed.

European Union Directive 67 / 548 Label Information:

Contents Under Pressure, Keep Out Of Reach Of Children. Avoid eye contact. In case of eye contact, rinse immediately with plenty of water and seek medical advice.

Keep away from hear, sparks, open flames, hot surfaces. Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use. Protect from sunlight and do not expose to temperature exceeding 50C.

16. Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state or Provincial, and local laws.

Effective Date: March 19, 2013

Supersedes: July 12, 2010

Prepared By: Don Mahaffy

MSDS updated in the following sections:

General update



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS: RQ1302205
Supersedes: RQ1207802

Issue Date: April, 2013
Issue Date: September, 2012

SECTION I - PRODUCT IDENTIFICATION

Identity: Dishwasher Cleaner

Finished Product

Brands: CASCADE DISHWASHER CLEANER

P&G Telephone Number: 1-800-765-5516

or call Local Poison Control Center or your physician.

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: Harmful if swallowed.

Eye Contact: If a pouch breaks, contact with its content may cause moderate irritation.

Skin Contact: If a pouch breaks, contact with its content may cause mild irritation.

Inhalation: If pouches are broken, inhaled powder can cause mild respiratory irritation

Signs and Symptoms of Exposure:

Ingestion: Ingestion may result in lodging causing moderate to severe upper gastrointestinal irritation, burning, discomfort which may impede a person's ability to speak or swallow.

Eye Contact: If a pouch breaks, contact with its content may cause moderate irritation.

Skin Contact: If a pouch breaks, contact with its content may cause mild irritation.

Inhalation: None expected. If pouches broken, inhaled powder may cause mild respiratory irritation.

Medical Conditions Generally Known to be Aggravated by Exposure: None

Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Sodium carbonate, oxygen bleaching system, enzymes, nonionic wetting agents, sodium silicate, binding agents, dyes, perfume., water soluble film.

Household Setting: Under normal consumer use, Cascade Dishwasher Cleaner would not constitute a hazardous product by OSHA definition as OSHA is not applicable to household consumer use.

Non Household Setting (federal): The contents of this pouch product, when tested as a whole, is considered an irritant within the meaning of the OSHA Hazard Communication Standard.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50</u>
Synthetic Amorphous Silica, PPTD	Silica	112926-00-8	1-5%	>10,000 mg/kg (rats, oral)
Poly(oxy-1,2-ethanediyl), α -tridecyl- ω -hydroxy-, branched	Alcohol Ethoxolate	69011-36-5	5-10%	1.08 g/kg (rats, oral)
1,2,3-Propanetricarboxylic acid, 2-hydroxy-	Citric Acid	77-92-9	60-100%	6 g/kg (rats, oral)

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: If swallowed, do NOT induce vomiting. Give a glassful of water and call a poison control center or physician immediately.

Eye Contact: Flush eyes with water for 15 minutes. If irritation persists, seek medical attention.

Skin Contact: Rinse exposed area with water. If irritation persists, seek medical attention.

Inhalation: If irritation persists, seek medical attention.

Note to Physician: (if applicable) Treat symptomatically

Other: Consumer product package has the following precautionary statement: CAUTION: IRRITANT. HARMFUL IF SWALLOWED OR PUT IN MOUTH. MAY IRRITATE EYES OR SKIN. KEEP OUT OF REACH OF CHILDREN. See Caution on back. CAUTION: Do not get in eyes. Do not get on skin or clothing. KEEP OUT OF REACH OF CHILDREN. FIRST AID TREATMENT: Contains citric acid and nonionic surfactants. If swallowed, give a glassful of water and call a Poison Control Center or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): N/K

Flammable Properties: Liquid part not flammable or combustible.

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

Explosive Limits: UEL:N/A LEL: N/A

Auto-ignition Temperature: N/K

Hazardous Combustion Products: N/K

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

Extinguishing Media:

Suitable: CO₂, water or dry chemical may be used.

Unsuitable: N/K

Protection of Firefighters:

Specific Hazards Arising from the Material: N/K

Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: If pouches are broken and powder is released (e.g., package damage incident), recommendation is to wear gloves and goggles for chemical handling/cleanup, and dust masks if considerable dust is airborne.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Product must be incinerated.

Methods for Containment: Prevent spills from reaching waterways.

Methods for Cleanup: Minimize dust levels while collecting product (see "inhalation" health effects). Dispose of by incineration.

Other Information: (if applicable)

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: Keep product dry.

Precautions To Be Taken in Storage: Store in a cool, dry ventilated area. Keep product dry.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: N/A

Engineering Controls: N/A

Personal Protective Equipment (PPE):

Eye/Face Protection: If pouches are broken and powder is released to the air, use chemical goggles.

Skin Protection: If pouches are broken and powder is released, protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Respiratory Protection: If pouches are broken and powder is released to the air, (e.g., package damage incident), recommendation is to wear a dust mask for handling/cleanup.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Clear pouch with a color liquid top and granular bottom with speckles.

Flash Point (Method Used): N/K

Odor: Product is perfumed.

Solubility in Water: Nearly 100% at 20°C/68°F.

Odor Threshold: N/A

Decomposition Temperature: N/A

Physical State: Powder: Solid at 20°C/68°F.
Liquid: Liquid at 20°C/68°F

Evaporation Rate (nBuOAc=1): N/A

Vapor Pressure (mm Hg): N/A

Specific Gravity/Density: 821 g/L

Vapor Density (Air=1): N/A

Melting/Freezing Point: N/A

Boiling Point: N/A

Reserve Alkalinity: 24.26

Partition Coefficient (n-octanol/water): N/A

pH (1% solution): 2.05

Volatile Organic Compound (VOC): Not applicable - Product not regulated for VOC Content at State or Federal level.

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: N/K

Incompatible Materials: N/K

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: None known

SECTION XI - TOXICOLOGICAL INFORMATION

Information on individual components indicates that if the pouch breaks, airborne dust from the dry material may cause slight respiratory irritation if inhaled, and direct contact with contents may cause moderate eye and mild skin irritation.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: NTP: No IARC: No

SECTION XII - ECOLOGICAL INFORMATION

Under normal and foreseeable uses, there are no concerns for aquatic organisms exposed to product ingredients at the anticipated environmental concentrations. Relevant environmental data have been reviewed and these indicate that the product is compatible with down-the-drain disposal routes, including municipal wastewater treatment processes and septic tank systems. This product is intended for dispersive use and should not be disposed of directly into the environment.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state/provincial and federal regulations.

Non Household Setting (federal): Liquids may not be disposed in landfills. This is a dual phase product and liquids must be disposed of by incineration. Dry product must also be incinerated.

Non Household Setting (California): Waste Code 561

Household Use: Product used in household may be disposed of in refuse or in sewer.

SECTION XIV - TRANSPORT INFORMATION

Transportation Information – Products covered by this MSDS, in their original form, are not regulated for transportation.

For finished packaged product transported by ground (US DOT): – not regulated

For finished packaged product transported by sea (IMDG) – not regulated

For finished packaged product transported by air (IATA): – not regulated

SECTION XV - REGULATORY INFORMATION

UNITED STATES - FEDERAL

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA chemicals: This product contains none of the following SARA 313/302/304/311/312 chemicals

STATES:

This product is not subject to warning labeling under California Proposition 65.

California Registration Number: Not Applicable.

State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS#	Level	States				CERCLA RQ
Dipropylene Glycol	25265-71-8	1-5%		PA			N/A
Silica Gel	112926-00-8	1-5%	MA	PA		NJ	N/A
Glycerine	56-81-5	0.5 to 1.5%	MA	PA	RI	NJ	N/A

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	2 (eye)	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

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MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Century Duster – Dust & Lint Remover

Synonym(s) Model # CDS
Model #: CDS8, CDS82
Model #: CDS12
Model #: CDS35
Model #: CDS10E

CAS # Mixture

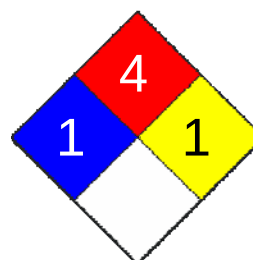
Product use Dust control

Manufacturer Falcon Safety Products, Inc.
25 Imclone Drive
Branchburg, NJ 08876 US
Phone: 1-908-707-4900

Supplier Falcon Safety Products, Inc.
25 Imclone Drive
Branchburg, NJ 08876
Phone 1-908-707-4900

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 1
Flammability	4
Physical Hazard	1
Personal Protection	X



2. Hazards Identification

Emergency overview DANGER
Flammable gas. Contents under pressure. Containers may explode when heated.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation.

Eyes

Contact with liquid may cause frostbite.

Skin

Contact with liquid may cause frostbite.

Inhalation

Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Vapors may cause dizziness or suffocation.

Ingestion

Not a normal route of exposure.

Target organs

Eyes. Skin. Respiratory system.

Chronic effects

Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Ethane, 1,1-difluoro-	75-37-6	60 - 100

4. First Aid Measures

First aid procedures

Eye contact

Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.

Skin contact

Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation	If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately.
Ingestion	Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
General advice	Do not puncture or incinerate container. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Flammable by WHMIS/OSHA criteria. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Do not extinguish burning gas if flow cannot be shut off immediately. Use water spray or fog nozzle to keep cylinder cool
	Small Fires: Dry chemical. Carbon dioxide. Water spray. Fog.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Fluoride gases.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling	Avoid breathing mists or aerosols of this product. Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	Exposure Limits
Ethane, 1,1-difluoro-	ACGIH-TLV Not established OSHA-PEL Not established
Engineering controls	Use only under good ventilation conditions or with respiratory protection.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields.

Hand protection	If there is constant skin contact, rubber gloves are recommended.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands and face before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Clear.
Color	Colorless
Form	Liquefied gas
Odor	Slight ethereal.
Odor threshold	Not available
Physical state	Gas
pH	Not applicable
Melting point	Not available
Freezing point	Not available
Boiling point	-25 °C (-13.00 °F)
Flash point	-50 °C (-58.00 °F)
Pour point	Not available
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	3.9
Flammability limits in air, upper, % by volume	16.9
Vapor pressure	599.43 kPa @25°C
Vapor density	2.4 @25°C (air=1)
Specific gravity	0.91
Relative density	0.9 g/cc @25°C
Octanol/water coefficient	Not available
Solubility (H2O)	Slightly
Auto-ignition temperature	454 °C (849.20 °F)
Percent volatile	100

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatible materials	Alkaline materials. Alkaline earth metals.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Fluoride gases.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Ethane, 1,1-difluoro-	> 64000 ppm rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Ethane, 1,1-difluoro-	1500 mg/kg rat

Effects of acute exposure

Eye	Contact with liquid may cause frostbite.
Skin	Contact with liquid may cause frostbite.

Inhalation	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness). Vapors may cause dizziness or suffocation.
Ingestion	Not a normal route of exposure.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.
Synergistic Materials	Not available

12. Ecological Information

Ecotoxicity	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Partition coefficient	Not available
Mobility in environmental media	Not available
Chemical fate information	Not available
Other adverse effects	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name	1,1-Difluoroethane
Hazard class	2.1
UN number	1030

Additional information:

Packaging exceptions

NOTE: Falcon Safety Products has been granted a DOT exemption that allows this product to be shipped similar to a Consumer Commodity (ORM-D). A copy of the DOT exemption can be obtained by calling Falcon Safety Products, Inc at 908-707-4900.



Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name 1,1-Difluoroethane

Hazard class 2.1

UN number 1030

Additional information:

Packaging exceptions Limited quantity (containers up to 125mL)



IATA/ICAO (Air)

Basic shipping requirements:

Proper shipping name 1,1-Difluoroethane

Hazard class 2.1

UN number 1030

Additional information:

Maximum net quantity packaging Cargo aircraft only – 150 kg maximum
(Forbidden on passenger aircraft)



15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - CEPA - Schedule I - List of Toxic Substances

Ethane, 1,1-difluoro-

75-37-6

Totally halogenated chlorofluorocarbons that have the molecular formula $C_nCl_xF_{(2n+2-x)}$:
(a) quantities that may be manufactured or imported; (b) Prohibition on manufacture, use, sale, offer for sale, import or export except for authorized uses [SOR/89-351, s. 16; 90-453, s. 5; 94-408, s. 24; 92-507, s. 17; 96-237, s. 5]

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

WHMIS status

Controlled

WHMIS classification

Class A - Compressed Gas, Class B - Division 1 - Flammable Gas

WHMIS labeling



State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Louisiana - Reportable Quantity List for Pollutants

Ethane, 1,1-difluoro- 75-37-6 5000 Lb final RQ; 2270 kg final RQ

U.S. - Massachusetts - Right To Know List

Ethane, 1,1-difluoro- 75-37-6 Present

U.S. - New Jersey - Right to Know Hazardous Substance List

Ethane, 1,1-difluoro- 75-37-6 sn 0715

Inventory name

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

18-April-2012

Effective date

18-April-2012

Expiry date

18-April-2015

Prepared by

Falcon Safety Products, Inc. (908) 707-4900

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.



The Clorox Company
1221 Broadway
Oakland, CA 94612
Tel. (510) 271-7000

Material Safety Data Sheet

I Product: CLOROX® DISINFECTING WIPES														
Description: FRAGRANCED, MOISTENED TOWELETTE														
Other Designations	Distributor	Emergency Telephone Nos.												
EPA Reg. No. 5813-58	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrac (800) 424-9300												
II Health Hazard Data		III Hazardous Ingredients												
Eye Contact: Can cause moderate eye irritation. Ingestion: Liquid should be practically non-toxic if ingested. Skin Contact: Prolonged skin contact may produce minor irritation. FIRST AID: EYES- Flush with plenty of water. Call a physician if irritation persists. IF SWALLOWED- Drink a glassful of water. Call a physician or poison control center. SKIN- Wash thoroughly with soap and water after handling. INHALATION- If breathing is affected, move to fresh air. Under normal consumer use conditions the likelihood of any adverse health effects are low.		<table border="1"><thead><tr><th>Ingredient</th><th>Concentration</th><th>Worker Exposure Limit</th></tr></thead><tbody><tr><td>n-Alkyl (C14, 60%; C16, 30% C12, 5%; C18, 5%) dimethylbenzyl ammonium chloride</td><td>0.145%</td><td>Not established</td></tr><tr><td>n-Alkyl (C12, 68%; C14, 32%) Dimethyl Ethylbenzyl ammonium chloride</td><td>0.145%</td><td>Not established</td></tr><tr><td>Isopropanol CAS #67-63-0</td><td>1- 5%</td><td>400 ppm/500 ppm¹ 400 ppm²</td></tr></tbody></table> ¹1998 ACGIH, TLV-TWA/STEL TLV-TWA- Threshold Limit Value-Time Weighted Average. STEL- Short Term Exposure Limit ²PEL- OSHA Permissible Exposure Limit None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen lists.	Ingredient	Concentration	Worker Exposure Limit	n-Alkyl (C14, 60%; C16, 30% C12, 5%; C18, 5%) dimethylbenzyl ammonium chloride	0.145%	Not established	n-Alkyl (C12, 68%; C14, 32%) Dimethyl Ethylbenzyl ammonium chloride	0.145%	Not established	Isopropanol CAS #67-63-0	1- 5%	400 ppm/500 ppm ¹ 400 ppm ²
Ingredient	Concentration	Worker Exposure Limit												
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n-Alkyl (C12, 68%; C14, 32%) Dimethyl Ethylbenzyl ammonium chloride	0.145%	Not established												
Isopropanol CAS #67-63-0	1- 5%	400 ppm/500 ppm ¹ 400 ppm ²												
IV Special Protection and Precautions		V Transportation and Regulatory Data												
No special protection or precautions have been identified for using this product under directed consumer use conditions. The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale or prolonged exposure. Hygienic Practices- Wear safety glasses. Use rubber or nitrile gloves if in contact liquid, especially for prolonged periods. Engineering Controls: Use general ventilation to minimize exposure to vapor or mist. Work Practices: Avoid eye and skin contact and inhalation of vapor or mist. Avoid contact with food. Not for personal cleansing. KEEP OUT OF THE REACH OF CHILDREN		U.S. DOT, IATA, IMG Hazard Class: Not restricted. U.S. DOT Proper Shipping Name: None EPA- SARA Title III/CERCLA: Product may be regulated under Sections 311/312. This product contains no chemicals regulated under Section 304/CERCLA or Section 313. TSCA/DSL: All chemicals in this product are listed on the TSCA Inventory. The DSL status for some components has not been determined.												
VI Spill Procedures/Waste Disposal		VII Reactivity Data												
Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material. Waste Disposal: Disposal must be made in accordance with applicable federal, state and local regulations.		Stability: Mixing with sodium hypochlorite may release small amounts of formaldehyde gas. Storage/Disposal: Do not use or store near heat or open flame.												
VIII Fire and Explosion Data		IX Physical Data												
Flashpoint: >119°F Method: Closed cup. Unusual Fire and Explosion Hazards: None		Flashpoint..... >119°F Specific Gravity..... 0.99 g/cc. pH..... 5.0-6.0 Solubility in Water..... Liquid is completely dispersible												

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DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH

DATE PREPARED 7/06

**The Clorox Company**

1221 Broadway
Oakland, CA 94612
Tel. (510) 271-7000

**Material Safety
Data Sheet**

I Product: CLOROX® READY-USE BLEACH PRE-DILUTED CLEANER – REGULAR SCENT														
Description: CLEAR, THIN LIQUID WITH A MILD BLEACH ODOR														
Other Designations	Distributor	Emergency Telephone Nos.												
	The Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies, call Chemtrec: (800) 424-9300												
II Health Hazard Data		III Hazardous Ingredients												
Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. No medical conditions are known to be aggravated by exposure to this product. <u>FIRST AID:</u> <u>EYE CONTACT:</u> Rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. If irritation persists, call a doctor. <u>SKIN CONTACT:</u> Rinse with plenty of water. If irritation persists, call a doctor. <u>INHALATION:</u> Remove to fresh air. If breathing problems develop, call a doctor. <u>INGESTION:</u> Drink a glassful of water. Call a doctor or poison control center.		<table><thead><tr><th><u>Ingredient</u></th><th><u>Concentration</u></th><th><u>Worker Exposure Limit</u></th></tr></thead><tbody><tr><td>Sodium hypochlorite CAS# 7681-52-9</td><td>0.1 - 1%</td><td>Not established.</td></tr><tr><td>Sodium metasilicate CAS# 6834-92-0</td><td>0.1 - 1%</td><td>Not established.</td></tr><tr><td>Sodium hydroxide CAS# 1310-73-2</td><td>0.1 - 1%</td><td>10 mg/m³ - NIOSH-IDLH^a 2 mg/m³ - TLV-C^b 2 mg/m³ - OSHA-PEL^c</td></tr></tbody></table> ^a NIOSH Immediately Dangerous to Life or Health ^b ACGIH Threshold Limit Value - Ceiling ^c OSHA Permissible Exposure Limit - Time Weighted Average None of the ingredients in this product are on the IARC, OSHA, or NTP carcinogen lists.	<u>Ingredient</u>	<u>Concentration</u>	<u>Worker Exposure Limit</u>	Sodium hypochlorite CAS# 7681-52-9	0.1 - 1%	Not established.	Sodium metasilicate CAS# 6834-92-0	0.1 - 1%	Not established.	Sodium hydroxide CAS# 1310-73-2	0.1 - 1%	10 mg/m ³ - NIOSH-IDLH ^a 2 mg/m ³ - TLV-C ^b 2 mg/m ³ - OSHA-PEL ^c
<u>Ingredient</u>	<u>Concentration</u>	<u>Worker Exposure Limit</u>												
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IV Special Protection and Precautions		V Transportation and Regulatory Data												
No special protection or precautions have been identified for using this product under directed use conditions. The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large scale or prolonged exposure. <u>Hygienic Practices:</u> Wash thoroughly with soap and water after handling. Do not wear product-contaminated clothing for prolonged periods. <u>Engineering Controls:</u> Use general ventilation to minimize exposure to product vapor. <u>Personal Protective Equipment:</u> Wear rubber or nitrile gloves if there is the potential for repeated or prolonged skin contact. In situations where adequate local exhaust is not available, a NIOSH-approved respirator is advised.		<u>DOT/IATA/IMDG:</u> Not restricted. <u>EPA - SARA Title III/CERCLA:</u> This product is regulated under Sections 311/312. This product contains no chemicals regulated under Section 313. It does contain sodium hydroxide and sodium hypochlorite, which are regulated under Section 304/CERCLA. <u>TSCA 8(b):</u> All components of this product are either on the TSCA 8(b) inventory or otherwise exempt from listing. <u>TSCA 12(b):</u> This product is not subject to TSCA 12(b) reporting requirements.												
VI Spill Procedures/Waste Disposal		VII Reactivity Data												
<u>Spill Procedures:</u> Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. <u>Waste Disposal:</u> Dispose of in accordance with all applicable federal, state, and local regulations.		Stable under normal use and storage conditions. This product contains a strong oxidizing agent. Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, or ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.												
VIII Fire and Explosion Data		IX Physical Data												
<u>Flash Point:</u> >215°F (closed cup) <u>Fire Extinguishing Agents:</u> Dry chemical, carbon dioxide (CO₂), foam, or water spray.		pH ~12 Specific gravity ~1.0 Solubility in water complete												

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number A15873
Product name Daycon Daybright Multi Purpose Germicidal Cleaner
Effective date 06-May-2011
Company information Daycon Products Company Inc
16001 Zone Ave
Upper Marlboro, MD 20774 United States
Company phone General Assistance 301-218-1000
Emergency telephone US 866-836-8855
Emergency telephone outside US 703-527-3887
Version # 09
Supersedes date 01-Jul-2010

2. Hazards Identification

Emergency overview Aerosol. Will be easily ignited by heat, spark or flames. CONTENTS UNDER PRESSURE.

Potential health effects

Eyes Moderately irritating to the eyes.

Skin Harmful if absorbed through the skin.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Harmful if inhaled.

Ingestion Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Target organs 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.
Kidney. Blood. Central nervous system. Liver. Respiratory system.

Chronic effects Conjunctiva. Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage. Prolonged skin contact may defat the skin and produce dermatitis.

Signs and symptoms Corneal damage. Narcosis. Liver enlargement. Conjunctivitis. Defatting of the skin. Irritation.

3. Composition / Information on Ingredients

Components	CAS #	Percent
2-Butoxyethanol	111-76-2	3 - 5
n-Butane	106-97-8	1 - 3
Non-hazardous and other components below reportable levels		> 90

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin contact Wash off with warm water and soap. Get medical attention if irritation develops or persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media

Large Fires: Water spray, fog or regular foam.

Small Fires: Dry chemical, CO2, water spray or regular foam.

Protection of firefighters

Protective equipment and precautions for firefighters

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

6. Accidental Release Measures

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.

Methods for cleaning up

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. Handling and Storage

Handling

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Use only with adequate ventilation. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.

Storage

Level 1 Aerosol (NFPA 30B) Level 1 Aerosol.
Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Avoid exposure to long periods of sunlight. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components

CAS

TWA

STEL

Ceiling

2-Butoxyethanol

111-76-2

20 ppm

Not established

Not established

n-Butane

106-97-8

1000 ppm

Not established

Not established

OSHA

Components

CAS

TWA

STEL

Ceiling

2-Butoxyethanol

111-76-2

50 ppm

Not established

Not established

Personal protective equipment

Eye / face protection

Wear chemical goggles.

Skin protection

Protective gloves.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

9. Physical & Chemical Properties

Appearance

Compressed liquefied gas.

Boiling point

212 °F (100 °C) estimated

Color

Pale yellow

Density

0.9785 g/cm³ estimated

Flammability (HOC)

3.4393 kJ/g estimated

Flash back

No

Flash point

-156 °F (-104.4 °C)

Form	Aerosol.
Freezing point	Not available
Odor	fruity
pH	11.8 - 12.8
Physical state	Liquid.
Pressure	55 - 75 psig @70F
Solubility	Partially
Specific gravity	0.9786

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition. Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	None known.
Hazardous decomposition products	May include oxides of oxides of carbon.

11. Toxicological Information

Acute effects	Acute LD50: 4536 mg/kg estimated, Rat, Dermal Acute LC50: 44 mg/l/4h estimated, Rat, Inhalation
---------------	--

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

2-Butoxyethanol	111-76-2	Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h

Sensitization	Not expected to be hazardous by OSHA criteria.
Teratogenicity	Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity	LC50 1162 mg/L, Fish, 96.00 Hours, EC50 17668 mg/L, Daphnia, 48.00 Hours, IC50 86.04 mg/L, Algae, 72.00 Hours, Components of this product have been identified as having potential environmental concerns.
-------------	---

13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F
Disposal instructions	Contents under pressure. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name	Consumer commodity
Hazard class	ORM-D
Subsidiary hazard class	None
Additional information:	
Packaging exceptions	156, 306
Packaging non bulk	156, 306
Packaging bulk	None

IMDG**Basic shipping requirements:**

Proper shipping name AEROSOLS
Hazard class 2.1
UN number 1950
Additional information:
Packaging exceptions LTD QTY
Item 5F
Labels required None
Transport Category 2

**IATA****Basic shipping requirements:**

Proper shipping name Aerosols, flammable
Hazard class 2.1
UN number 1950
Additional information:
Packaging exceptions LTD QTY
Labels required 2.1



15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

2-Butoxyethanol	111-76-2	1.0 % de minimis concentration (applies to R-(OCH ₂ CH ₂) _n -OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)
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Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Hazard categories (311/312)
 Immediate Hazard - Yes
 Delayed Hazard - No
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations**U.S. - Pennsylvania - RTK (Right to Know) List**

2-Butoxyethanol	111-76-2	Present
n-Butane	106-97-8	Present

Product name: Daycon Daybright Multi Purpose Germicidal Cleaner

Product #: 873-002 Revision date: 06-MAY-2011 Print date: 06-MAY-2011

MSDS US

4 / 5

16. Other Information

Further information	HMIS Trademark Statement
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0 Personal protection:
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
MSDS sections updated	Product and Company Identification: Product Review Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Physical & Chemical Properties
Prepared by	Regulatory Compliance

PRODUCT SAFETY DATASHEET

Page 1 of 2
Alkaline Batteries
June 2007

As a courtesy to our customers, Eveready has prepared copyrighted Product Safety Datasheets to provide information on the different Eveready battery systems. As defined in OSHA Hazard Communication Standard, Section 1910.1200 (c), Eveready batteries are manufactured "articles", which do not result in exposure to a hazardous chemical under normal conditions of use. For this reason, Material Safety Datasheets are not required. The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, EVEREADY BATTERY COMPANY, INC., MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.

PRODUCT SAFETY DATA SHEET**PRODUCT NAME:** EVEREADY Battery**Type No.:****Volts:****TRADE NAMES:** EVEREADY**Approximate Weight:****CHEMICAL SYSTEM:** Alkaline Manganese Dioxide-Zinc**Designed for Recharge:** No**SECTION I - MANUFACTURER INFORMATION**

Eveready Battery Company, Inc.
1359 Columbia Rd.
Westlake, OH 44145

Telephone Numbers for Information:
(800) 383-7323 (USA / CANADA)

Date Prepared: June 2007

SECTION II - HAZARDOUS INGREDIENTS

IMPORTANT NOTE: The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

MATERIAL OR INGREDIENT	PEL (OSHA)	TLV (ACGIH)	% / wt.
Graphite (CAS# 7782-42-5)	15 mg/m ³ TWA (total dust) 5 mg/m ³ TWA (respirable fraction)	2 mg/m ³ TWA (respirable fraction)	2-6
Manganese Dioxide (CAS# 1313-13-9)	5 mg/m ³ Ceiling (as Mn)	0.2 mg/m ³ TWA (as Mn)	30-45
Potassium Hydroxide (CAS# 1310-58-3)	None established	2 mg/m ³ Ceiling	4-8
Zinc (CAS# 7440-66-6)	15 mg/m ³ TWA PNOR* (total dust) 5 mg/m ³ TWA PNOR* (respirable fraction)	10 mg/m ³ TWA PNOC** (inhalable particulate) 3 mg/m ³ TWA PNOC** (respirable particulate)	12-25

* PNOR: Particulates not otherwise regulated

**PNOC: Particulates not otherwise classified

SECTION III - FIRE AND EXPLOSION HAZARD DATA

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.
Fire fighters should wear self-contained breathing apparatus.

SECTION IV - HEALTH HAZARD DATA

Under normal conditions of use, the battery is hermetically sealed.

Ingestion: Swallowing a battery can be harmful.

Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

If battery or open battery is ingested, do not induce vomiting or give food or drink. Seek medical attention immediately. CALL NATIONAL BATTERY INGESTION HOTLINE for advice and follow-up (202-625-3333) collect day or night.

Inhalation: Contents of an open battery can cause respiratory irritation. Provide fresh air and seek medical attention.

Skin Contact: Contents of an open battery can cause skin irritation and/or chemical burns. Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

Eye Contact: Contents of an open battery can cause severe irritation and chemical burns. Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

SECTION V - PRECAUTIONS FOR SAFE HANDLING AND USE

Storage: Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

Mechanical Containment: If potting or sealing the battery in an airtight or watertight container is required, consult your Eveready Battery Company representative for precautionary suggestions. Batteries normally evolve hydrogen which, when combined with oxygen from the air, can produce a combustible or explosive mixture unless vented. If such a mixture is present, short circuits, high temperature, or static sparks can cause an ignition.

Do not obstruct safety release vents on batteries. Encapsulation (potting) of batteries will not allow cell venting and can cause high pressure rupture.

Handling: Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

If soldering or welding to the battery is required, consult your Eveready Battery Company representative for proper precautions to prevent seal damage or short circuit.

Charging: This battery is manufactured in a charged state. It is not designed for recharging. Recharging can cause battery leakage or, in some cases, high pressure rupture. Inadvertent charging can occur if a battery is installed backwards.

Labeling: If the Eveready label or package warnings are not visible, it is important to provide a package and/or device label stating:

WARNING: do not install backwards, charge, put in fire, or mix with other battery types. May explode or leak causing injury. **Replace all batteries at the same time.**

Where accidental ingestion of small batteries is possible, the label should include:

Keep away from small children. If swallowed, promptly see doctor; have doctor phone (202) 625-3333 collect.

Disposal: Dispose in accordance with all applicable federal, state and local regulations. Appropriate disposal technologies include incineration and land filling.

SECTION VI - SPECIAL PROTECTION INFORMATION

Ventilation Requirements: Not necessary under normal conditions.

Respiratory Protection: Not necessary under normal conditions.

Eye Protection: Not necessary under normal conditions. Wear safety glasses with side shields if handling an open or leaking battery.

Gloves: Not necessary under normal conditions. Use neoprene or natural rubber gloves if handling an open or leaking battery.

SECTION VII - REGULATORY INFORMATION

Batteries marketed by Eveready Battery Company have been classified as non-dangerous goods by the US Department of Transportation and the major international regulatory bodies and are therefore not regulated.

SARA/TITLE III - As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right-To-Know Act.

Section 1. Identification

Product name : Expo White Board Cleaner

Material uses : Cleaning solutions.

Manufacturer : Newell Rubbermaid
3500 Lacey Road, 10th Floor
Downers Grove, IL 60515
USA
800-323-0749 or 630-829-2500

Emergency telephone number (with hours of operation) : CHEMTREC (U.S. and Canada) 1-800-424-9300

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : Not applicable

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General : Read label before use. If medical advice is needed, have product container or label at hand.

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
3-butoxypropan-2-ol	2 - 5	5131-66-8

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 3. Composition/information on ingredients

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Section 8. Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Clear.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Not available.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : Not available.
- Solubility** : Not available.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Not available.

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
3-butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-

Irritation/Corrosion

No known significant effects or critical hazards.

Sensitization

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

Information on the likely routes of exposure : Not available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Section 11. Toxicological information

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Dermal	63798.6 mg/kg

Section 12. Ecological information

Toxicity

No known significant effects or critical hazards.

Persistence and degradability

No known significant effects or critical hazards.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
3-butoxypropan-2-ol	1.2	-	low

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory information

U.S. Federal regulations : **United States inventory (TSCA 8b):** All components are listed or exempted.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
3-butoxypropan-2-ol	2 - 5	Yes.	No.	No.	Yes.	No.

California Prop. 65

This product does not contain Chemicals known to State of California to cause cancer, birth defects, or reproductive harm.

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

Canadian lists

Canadian NPRI : The following components are listed: Propylene glycol butyl ether

CEPA Toxic substances : None of the components are listed.

Canada inventory : All components are listed or exempted.

Section 16. Other information

History

Date of issue/Date of revision : 8/5/2015

Date of previous issue : No previous validation

Version : 1

Prepared by : Product Safety.

Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
UN = United Nations

▀ Indicates information that has changed from previously issued version.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: RQ1102927
Supersedes: RQ0908662

Issue Date: 01/22/2012
Issue Date: 05/10/2011

SECTION I - PRODUCT IDENTIFICATION

Identity: Fabric Refresher **Finished Product**
Brands: FEBREZE FABRIC REFRESHER
(All scent versions, including seasonal scents, excluding Febreze Fabric Refresher - Antimicrobial)
P&G Telephone Number: 1-800-308-EASY (1-800-308-3279)
or call Local Poison Control Center or your physician.

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)
Ingestion: None known.
Eye Contact: Mild eye irritant.
Skin Contact: Prolonged skin contact may result in transient, superficial effects similar to those produced by mild toilet soap.
Inhalation: None known.
Signs and Symptoms of Exposure:
Ingestion: Possible mild gastrointestinal irritation with nausea, vomiting, and/or diarrhea.
Eye Contact: Instillation into the eye may result in transient, superficial effects similar to those produced by mild toilet soap.
Skin Contact: Prolonged skin contact may result in transient, superficial effects similar to those produced by mild toilet soap.
Inhalation: None known.
Medical Conditions Generally Known to be Aggravated by Exposure: None known.
Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients listed on the product label are: Water, alcohol, odor eliminator derived from corn, and fragrance.
Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200, and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition</u> <u>Range</u>	<u>LD50/LC50</u>
Ethyl Alcohol	Ethanol	64-17-5	1-5%	7.06 g/kg rat, oral

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: Dilute with fluids and treat symptomatically.

Eye Contact: Rinse well with water for at least 15 minutes.

Skin Contact: Rinse with water.

Inhalation: Remove to fresh air.

Note to Physician: Treat symptomatically.

Other: Consumer product package has the following precautionary statement: **USE ONLY AS INTENDED.**

KEEP OUT OF THE REACH OF CHILDREN. Do not spray directly toward face. If eye contact occurs, rinse well with water.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used):

Allergen Reducer and Carpet Odor Eliminator: 136 °F / 58 °C (Closed Cup)

Other scent variants: 142 – 159 °F / 61 – 71 °C (Closed Cup)

Products do not sustain combustion (ASTM D 4206)

Flammable Properties: Products are not considered flammable, and do not sustain combustion

Upper Flammable Limit: N/K

Lower Flammable Limit: N/K

Explosive Limits: UEL: N/A LEL: N/A

Auto-ignition Temperature: N/K

Hazardous Combustion Products: None known

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

Extinguishing Media:

Suitable: CO₂, water, or dry chemical may be used.

Unsuitable: N/K

Protection of Firefighters:

Specific Hazards Arising from the Material: None known

Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: Disposal is to be performed in compliance with federal, state/provincial and local regulations. Slowly flush down sewer with excess water or dispose as liquid scrap. Discard empty container in trash. Do not landfill liquids.

Methods for Containment: Dike or contain spill. Absorb with inert material and dispose. Flush area with water. Prevent washings from entering waterways. Sorbents may be used.

Methods for Cleanup: Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak. Any spills are to be prevented from entering waterways. Sorbents may be used.

Other Information: (if applicable)

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: None.

Precautions To Be Taken in Storage: Store at room temperature.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm
OSHA Z-1 PEL 1000 ppm

Engineering Controls: None required

Personal Protective Equipment (PPE):

Eye/Face Protection: None required for normal consumer use.

Industrial setting: If a splash of solution is likely, chemical goggles may be needed.

Skin Protection: None required for normal consumer use.

Industrial setting: Minimize skin contact with protective gloves (rubber or neoprene).

Respiratory Protection: None required with normal consumer use.

Industrial setting: Use ventilation to minimize exposure to vapor or mist (ethanol).

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape):

Clear liquid

Flash Point (Method Used):

Allergen Reducer and Carpet Odor Eliminator: 136 °F / 58 °C (CC)

Other scent variants: 142 – 159 °F / 61 – 71 °C (CC)

Products do not sustain combustion (ASTM D 4206)

Odor: Products are perfumed.

Odor Threshold: N/A

Physical State: Liquid

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Boiling Point: ~ 212 °F / ~ 100 °C

Partition Coefficient (n-octanol/water): N/A

Reserve Alkalinity: N/A

Solubility in Water: Soluble

Decomposition Temperature: N/A

Evaporation Rate (nBuOAc=1): N/K

Specific Gravity/Density: ~ 1.0

Melting/Freezing Point: N/A

pH (100% solution): pH = 6.0 – 8.0

Volatile Organic Compound (VOC): Product complies with State and Federal regulations for VOC content.

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: N/K

Incompatible Materials: N/K

Hazardous Decomposition Products: N/K

Possibility of Hazardous Reactions: N/K

SECTION XI - TOXICOLOGICAL INFORMATION

Febreze is practically nontoxic. If ingested, it may be mildly irritating.
LD50 (oral): > 5000 mg/kg (estimated).
LD50 (dermal): > 5000 mg/kg (estimated).

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: NTP: No IARC: No OSHA: No

SECTION XII - ECOLOGICAL INFORMATION

There are no concerns at relevant environmental concentrations. Based on ecotoxicity and fate data for the individual ingredients in this formulation and for similar consumer product formulations, this product is anticipated to be non-hazardous to the environment following consumer usage.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal is to be performed in compliance with federal, state/provincial and local regulations.

Non-household Setting (US Federal): Products covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations.

Non-Household Setting (California): Not hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24.

Household Use: Product used in household may be disposed of in refuse or in sewer.

SECTION XIV - TRANSPORT INFORMATION

Ground Transport (US DOT): Products covered by this MSDS, in their original form, are not regulated for transportation.

Air Transport (IATA): – not regulated

Marine/Water Transport (IMDG): – not regulated

SECTION XV - REGULATORY INFORMATION

United States:

All intentionally-added components of this (these) product(s) are listed on the US TSCA Inventory.
EPA Registration Number: Not Applicable

SARA 313/302/304/311/312 chemicals: None

California: This product has been evaluated and does not require warning labeling under California Proposition 65.
California Registration Number: Not Applicable

State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists

Ingredient	CAS #	Level	CERCLA RQ	State				
				IL	MA	NJ	PA	RI
Ethanol	64-17-5	1-5%	100 lbs.	X	X	X	X	X

Canada:

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

Other: Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

SECTION XVI - OTHER INFORMATION

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

Issue Date: Mar 2014

SECTION I - PRODUCT IDENTIFICATION

Identity: AEROSOL AIR REFRESHER

Finished Product

Brands: FEBREZE AIR EFFECTS (all scents, including seasonal scents)

P&G Telephone Number: 1-800-308-EASY (1-800-308-3279) or call Local Poison Control Center or your physician.

Emergency (24 hour) Telephone Number: CHEMTREC 1-800-424-9300 – in the U.S. and Canada
1-703-527-3887 - for calls originating elsewhere

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: None

Eye Contact: Mild eye irritant

Skin: None

Inhalation: None

Signs and Symptoms of Exposure:

Ingestion: Possible mild gastrointestinal irritation with nausea, vomiting, and/or diarrhea.

Eye Contact: Do not spray toward face. If eye contact occurs, rinse well with water.

Skin Contact: Prolonged skin contact or instillation into the eye may result in transient, superficial effects similar to those produced by mild toilet soap.

Inhalation: Intentional misuse by deliberately concentrating and inhaling pressurized product may be harmful or fatal. Inhalation of high concentrations of ethanol vapor may cause irritation of the eyes and respiratory tract, drowsiness and fatigue.

Medical Conditions Generally Known to be Aggravated by Exposure: None

Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name: Water, alcohol, odor eliminator derived from corn, fragrance, non-flammable natural propellant, quality control ingredients. Contents under pressure with nitrogen.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition</u> <u>Range</u>	<u>LD50/LC50</u>
Ethanol	Alcohol	64-17-5	3-7%	7.06 g/kg rat, oral

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: Dilute with fluids and treat symptomatically.

Eye Contact: Rinse well with water for at least 15 minutes.

Skin Contact: Rinse with water.

Inhalation: Remove to fresh air.

Note to Physician: (if applicable)

Other: Consumer product package has the following precautionary statement:

US Product Package:

FRONT PANEL: **CAUTION: CONTENTS UNDER PRESSURE.** Read back panel carefully.

BACK PANEL: **CAUTION:** Intentional misuse by deliberately concentrating and inhaling pressurized product may be harmful or fatal. **KEEP OUT OF REACH OF CHILDREN.** Do not spray towards face. If eye contact occurs, rinse well with water. If irritation persists, get medical attention. Do not expose to heat or open flame or store at room temperatures above 120F. Dispose properly. Do not puncture or incinerate container.

Canadian Product Package:

FRONT PANEL: **CAUTION: CONTENTS UNDER PRESSURE.**

BACK PANEL: **CAUTION:** CONTAINER MAY EXPLODE IF HEATED. Do not puncture. Do not burn. Store away from heat. Some hard surfaces may become damp when sprayed. Avoid slips or falls. **KEEP OUT OF REACH OF CHILDREN.** Do not spray towards face. If eye contact occurs, rinse well with water.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): 125-140°F (cc)/ 51.66- 60°C Although this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does **not** sustain combustion.

Aerosol was tested per the appropriate tests in the UN Manual of Tests and Criteria to classify as Aerosols 2.2.

Flammable Properties: Mixture and propellant are not flammable.

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

Explosive Limits: UEL: N/A LEL: N/A

Auto-ignition Temperature: N/K

Hazardous Combustion Products: N/K

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

Extinguishing Media:

Suitable: CO₂, water or dry chemical may be used.

Unsuitable: N/K

Protection of Firefighters:

Specific Hazards Arising from the Material: N/K

Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: Disposal is to be performed in compliance with federal, state/provincial and local regulations. Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some US states because of their potential to explode when heated. Check with your State/provincial environmental agency for guidance. Do not landfill liquid. Incinerate all expelled liquid.

Methods for Containment: Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak. Any spills are to be prevented from entering waterways. Sorbents may be used.

Methods for Cleanup: For individual cans, expel liquid, collect, incinerate, puncture container and send as scrap metal for recycling.

Other Information: (if applicable): N/A

SECTION VII – HANDLING AND STORAGE

Precautions For Safe Handling

For Household Setting: Keep out of reach of children. Do not expose to heat or open flame or store at room temperatures above 120F. Dispose properly. Do not puncture or incinerate container.

For Non – Household Setting: Avoid puncturing or otherwise damaging aerosol containers and packaging when using forklifts or other material handling equipment.

Conditions for Safe Storage: Do not expose to heat or flame.

For Household Setting: Pressurized container. Store at room temperature. Do not expose to temperatures above 43°C / 110°F.

For Non-Household Use: Pressurized container. Store at room temperature. Do not expose to temperatures above 43°C / 110°F. Store in accordance with local requirements for NFPA Aerosol Level 1 products.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm
OSHA Z-1 PEL 1000 ppm

Engineering Controls: N/A

Personal Protective Equipment (PPE):

Eye/Face Protection: None required for normal consumer use.

Industrial setting: If a splash of solution is likely, chemical goggles may be needed.

Skin Protection: None required for normal consumer use.

Industrial setting: Minimize skin contact with protective gloves (rubber or neoprene).

Respiratory Protection: None required with normal consumer use.

Industrial setting: Use ventilation to minimize exposure to vapor or mist (ethanol).

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Clear liquid.	Flash Point (Method Used): 125-140°F (cc)/ 51.66- 60°C. Although this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does not sustain combustion. Aerosol was tested per the appropriate tests in the UN Manual of Tests and Criteria to classify as Aerosols 2.2.
Odor: Perfume	Solubility in Water: Soluble
Odor Threshold: N/A	Decomposition Temperature: N/A
Physical State: liquid	Evaporation Rate (nBuOAc=1): N/K
Vapor Pressure (mm Hg): N/A	Specific Gravity/Density (H₂O=1): ~ 1.0
Vapor Density (Air=1): N/A	Melting/Freezing Point: N/A
Boiling Point: 212°F / ~100°C	Reserve Alkalinity: N/A
Partition Coefficient (n-octanol/water): N/A	pH (neat): 4.0-5.0 pH (neat): 7.0 (Pet Odor Eliminator, Pure Refreshment and Clean Citrus)
Volatile Organic Compound (VOC): Product complies with State and Federal regulations for VOC content.	

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable.

Conditions to Avoid: Avoid extreme heat.

Incompatible Materials: N/K

Hazardous Decomposition Products: N/K

Possibility of Hazardous Reactions: N/K

SECTION XI – TOXICOLOGICAL INFORMATION

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.
LD50 (rats oral) – estimated >5000 mg/kg

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished consumer product is not carcinogenic.
NTP: No
IARC: No

SECTION XII - ECOLOGICAL INFORMATION

This product is intended for dispersive use. The ingredients do not pose a significant hazard to aquatic organisms and will not cause any long-term adverse effects in the environment at environmentally relevant concentrations. The container is compatible with municipal solid waste systems and will not pose a hazard to the environment when properly handled.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Disposal is to be performed in compliance with federal, state/provincial and local regulations. Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some States because of their potential to explode when heated. Check with your State/provincial environmental agency for guidance. Do not landfill liquid. Incinerate all expelled liquid.

Non-Household Setting (federal): For individual bottles, expel liquid, collect and incinerate. Puncture container and send as scrap metal for recycling.

Non-Household Setting (California): Hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

Household Use: Consumer may discard empty container in trash, or recycle where facilities exist.

SECTION XIV - TRANSPORT INFORMATION

Transportation Information – Products covered by this MSDS, in their original form, are regulated for transportation.

For finished packaged product transported by ground (US DOT): **Consumer Commodity ORM-D.**

For finished packaged product transported by sea (IMDG): **UN1950, Aerosols, 2.2**

For finished packaged product transported by air (IATA): **ID8000 Consumer Commodity, 9**

SECTION XV - REGULATORY INFORMATION

UNITED STATES - FEDERAL

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA chemicals: This product contains the following SARA 313/302/304/311/312 chemicals: NONE

STATES:

This product is not subject to warning labeling under California Proposition 65.

State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS#	Level	States					CERCLA RQ
			IL	MA	NJ	PA	RI	
Ethanol	64-17-5	3-7%	X	X	X	X	X	100 lbs

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.



SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

Fellowes, Inc.
1789 Norwood Avenue
Itasca, IL 60143-1095
USA
Telephone: 630.893.1600
Fax: 630.893.1648
Toll Free: 800.945.4545

Product Name: 35250 Fellowes Powershred Shredder Lubricant

Description: Lubricant

SECTION 2: HAZARD IDENTIFICATION

Inhalation: May cause slight irritation.
Eyes: May cause slight irritation.
Skin: May cause slight irritation.
Ingestion: May cause gastrointestinal discomfort.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name:</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Maximum Weight :</u>
Canola Oil	120962-03-0		>99%

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air.
Eyes: Flush with water.
Skin: Wash with soap and water.
Ingestion: Do not induce vomiting. Seek medical attention.

SECTION 5: FIREFIGHTING MEASURES

Flash Point: >500F (260C) Closed Cup
Flammability Limits in Air by volume: **Lower:** Not explosive **Upper:** Not explosive
Extinguishing Media: Do not use water jet. Use dry chemical, halon, carbon dioxide, water spray, fog, or foam.
Special Firefighting Measures: None
Unusual Hazards: None



SECTION 6: ACCIDENTAL RELEASE MEASURES

Use absorbent material and dispose of appropriately. For large spills, keep product out of sewers and advise authorities if product has entered sewers. Surfaces may become slippery after spillage.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat and sources of ignition.
Storage: Do not store near heat or flame. Store away from strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes and Face: None necessary when product is used as intended.
Clothing: No special protective clothing when used as intended.
Respiratory: None necessary when product is used as intended.
Ventilation: Normal ventilation is adequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: >575F
Evaporation Rate: Not available
Specific Gravity: 0.92 g/ml (7.67 lb/gal) @ 25C
Solubility in Water: Not soluble
Appearance/Odor: Yellow to amber liquid; faint fatty odor.

SECTION 10: STABILITY AND REACTIVITY

Stable: Stable under normal conditions.
Conditions to Avoid: Keep away from heat and open flame. Avoid strong oxidizing agents.
Chemical Incompatibility: Strong oxidizers
Hazardous Decomposition: Combustion produces carbon monoxide, carbon dioxide, along with thick smoke.
Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Not listed on NTP, OSHA, or IARC.



SECTION 12: ECOLOGICAL INFORMATION

This product is biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose in accordance with Federal, State, and Local Regulations.

Additional Information: "Empty" containers should be completely drained.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated as a hazardous material.

IATA: Not regulated as a hazardous material.

IMO: Not regulated as a hazardous material.

SECTION 15: REGULATORY INFORMATION

United States: The components used in this product are listed on the Toxic Substances Control Act.

Canada: All components are listed on the Canadian DSL.

EU: Currently not classified according to EEC Directives.

Additional: None

SECTION 16: OTHER INFORMATION

According to 29 CFR 1910.1200(b)(6)(ix) of the Code of Federal Regulations, amended July 1, 2007, the Fellowes product described in this Material Safety Data Sheet is exempt from the Hazard Communication Standard. The information contained in this MSDS is not meant to imply that this Fellowes product is covered by the OSHA Hazard Communication Standard nor meant to comply with the OSHA Hazard Communication Standard.

February 10, 2012

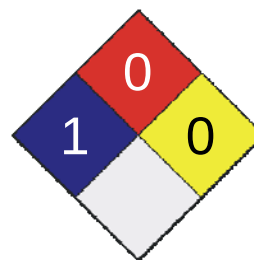
HMIS RATING	
Health	0
Flammability	1
Physical Hazard	0
Personal Protection	N/A

1. Product and Company Identification

Product Name	FINISH® Dishwasher Cleaner
CAS #	Mixture
Product use	Dishwasher Cleaner
Distributed by	Reckitt Benckiser Morris Corporate Center IV 399 Interpace Parkway P.O. Box 225 Parsippany, NJ 07054-0225 In Case of Emergency: 1-800-338-6167 Transportation Emergencies: 24 Hour Number: North America: CHEMTREC: 1-800-424-9300 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview	CAUTION MAY CAUSE EYE IRRITATION. DANGEROUS FUMES FORM WHEN MIXED WITH OTHER PRODUCTS. DO NOT mix with chlorine bleach or any other product. DO NOT get in eyes. KEEP OUT OF REACH OF CHILDREN.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	Irritating to eyes.
Skin	None expected during normal conditions of use. Not expected to be a skin sensitizer.
Inhalation	None expected during normal conditions of use.
Ingestion	Ingestion could cause irritation of the mouth and throat.
Target organs	Eyes. Respiratory system. Skin.
Chronic effects	The finished product is not expected to have chronic health effects.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin.
OSHA Regulatory Status	Not available
Potential environmental effects	See section 12.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Citric Acid	77-92-9	20 - 40
1,2-Propanediol	57-55-6	1 - 2.5
Sodium cumenesulfonate	28348-53-0	1 - 2.5

4. First Aid Measures

First aid procedures	
Eye contact	If in eyes, IMMEDIATELY rinse eyes with plenty of water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation occurs, get medical attention.

Skin contact	If on skin, wash with plenty of soap and water. If irritation persists get immediate medical attention.
Inhalation	Move to fresh air. Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors.
Ingestion	If swallowed, call a Poison Control Center or doctor immediately. DO NOT induce vomiting.
Notes to physician	Treat patient symptomatically.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling	Ensure adequate ventilation. Avoid contact skin and eyes. DO NOT mix with chlorine bleach or any other product as harmful fumes may result. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.
Storage	Keep out of reach of children. Keep in properly labelled containers. Keep containers tightly closed in a cool, well-ventilated place.

8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	Exposure Limits
1,2-Propanediol	ACGIH-TLV Not established OSHA-PEL Not established
Citric Acid	ACGIH-TLV TWA: 10 mg/m3 OSHA-PEL TWA: 10 mg/m3
Sodium cumenesulfonate	ACGIH-TLV Not established OSHA-PEL Not established
Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye / face protection	tightly fitting safety goggles Emergency responders should wear full eye and face protection.
Hand protection	Impervious gloves. Emergency responders should wear impermeable gloves.
Skin and body protection	Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Respiratory protection	Not normally required under normal use conditions. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

Appearance	Liquid
Color	Blue
Form	aqueous solution
Odor	perfumed
Odor threshold	Not available
Physical state	Liquid
pH	1.25 ± 0.3 (100%)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	> 212.00 °F (> 100 °C)
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available

Specific gravity	1.217 - 1.122 (20°C/68°F)
Octanol/water coefficient	Not available
Viscosity	4 - 12 MPas - sp.1 / 60 rpm (20°C/68°F)

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Exposure to sunlight. Excessive heat. DO NOT MIX WITH BLEACH or use in conjunction with other household products. Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
1,2-Propanediol	Not available
Citric Acid	Not available
Sodium cumenesulfonate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
1,2-Propanediol	14800 mg/kg rabbit; 20000 mg/kg rat
Citric Acid	5040 mg/kg mouse; 3000 mg/kg rat
Sodium cumenesulfonate	7000 mg/kg rat

Effects of acute exposure

Eye	Irritating to eyes.
Skin	None expected during normal conditions of use. Not expected to be a skin sensitizer.
Inhalation	None expected during normal conditions of use.
Ingestion	Ingestion could cause irritation of the mouth and throat.
Sensitization	The finished product is not expected to have chronic health effects.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.
Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	See below	
Ecotoxicity - Freshwater Algae - Acute Toxicity Data		
1,2-Propanediol	57-55-6	96 Hr EC50 Pseudokirchneriella subcapitata: 19000 mg/L
Sodium cumenesulfonate	28348-53-0	72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
1,2-Propanediol	57-55-6	96 Hr LC50 Oncorhynchus mykiss: 51600 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 41 - 47 mL/L [static]; 96 Hr LC50 Pimephales promelas: 51400 mg/L [static]; 96 Hr LC50 Pimephales promelas: 710 mg/L
Citric Acid	77-92-9	96 Hr LC50 Lepomis macrochirus: 1516 mg/L [static]
Ecotoxicity - Water Flea - Acute Toxicity Data		
1,2-Propanediol	57-55-6	24 Hr EC50 Daphnia magna: >10000 mg/L; 48 Hr EC50 Daphnia magna: >1000 mg/L [Static]
Citric Acid	77-92-9	72 Hr EC50 Daphnia magna: 120 mg/L
Sodium cumenesulfonate	28348-53-0	24 Hr EC50 Daphnia magna: >1000 mg/L

Persistence / degradability	Not available
Bioaccumulation / accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

UN/ID N.o. Not applicable

U.S. Department of Transportation (DOT): Classification: Not regulated

Proper shipping name Not applicable

U.S. DOT Hazard Class Not applicable

Subsidiary Risk Not applicable

Packing group Not applicable

DOT RQ (lbs) Not applicable

ERG NO Not applicable

Transportation of Dangerous Goods (TDG - Canada): Classification: Not regulated

Proper shipping name Not applicable

Status Not applicable

Packing group Not applicable

IMDG (Marine Transport): Classification: Not regulated

Proper shipping name	Not applicable
Class	Not applicable
Subsidiary Risk	Not applicable
Packing group	Not applicable
IMDG Page	Not applicable
Marine pollutant	Not applicable
EMS	Not applicable
MFAG	Not applicable
Maximum Quantity	Not applicable

IATA/ICAO (Air): Classification: Not regulated

Proper shipping name	Not applicable
Class	Not applicable
Subsidiary Risk:	Not applicable
Packing group	Not applicable
Maximum Quantity	Not applicable

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Product Registration: Product is compliant with CPSC regulatory guidelines; a specific registration is not required for this product.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical No

Clean Air Act (CAA) Not available

Clean Water Act (CWA)

Not available

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

U.S. - Minnesota - Hazardous Substance List

1,2-Propanediol 57-55-6 Present

U.S. - New Jersey - Right to Know Hazardous Substance List

1,2-Propanediol 57-55-6 sn 3595

U.S. - Pennsylvania - RTK (Right to Know) List

1,2-Propanediol 57-55-6 Present

U.S. - Rhode Island - Hazardous Substance List

1,2-Propanediol 57-55-6 Flammable

Inventory status**Country(s) or region****Inventory name****On inventory (yes/no)***

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information

FINISH® Dishwasher Cleaner, 8.45 Fl. Oz. (250 mL) - 0256834 v3.0

Issue date

04-Jun-2012

Effective date

01-Jun-2012

Prepared by

Reckitt Benckiser Regulatory Department 800-333-3899

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.



SAFETY DATA SHEET

Issuing Date November 9, 2015

Revision Date August 8, 2017

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Formula 409® Multi-Surface Cleaner

Other means of identification

EPA Registration Number 5813-73

Recommended use of the chemical and restrictions on use

Recommended Use Multi-purpose spray cleaner and disinfectant

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address

The Clorox Company
1221 Broadway
Oakland, CA 94612

Phone: 1-510-271-7000

Emergency telephone number

Emergency Phone Numbers

For Medical Emergencies call: 1-800-446-1014
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This mixture is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation

Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal word	Warning
Hazard statements Causes mild skin irritation	
No pictogram required.	
Appearance Clear	Physical State Thin liquid
	Odor Floral, citrus

Precautionary Statements - Prevention

None

Precautionary Statements - Response

If skin irritation occurs: Get medical advice.

Precautionary Statements - Storage

None

Precautionary Statements - Disposal

None

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0.2% of the mixture consists of ingredient(s) of unknown toxicity

Other information

Very toxic to aquatic life with long-lasting effects.

Interactions with Other Chemicals

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Lauramine oxide	1643-20-5	0.5 - 1.5	*
n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	68424-85-1	0.2 - 0.4	*

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move to fresh air. If breathing is affected, call a doctor.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glassful of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects Mild irritation of eyes and skin.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

No information available

Explosion Data

Sensitivity to Mechanical Impact None

Sensitivity to Static Discharge None

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes and skin.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental Precautions See Section 12 for additional ecological Information

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes, skin, and clothing. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool, and well-ventilated place.

Incompatible Products None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lauramine oxide 1643-20-5	None	None	None
n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride 68424-85-1	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	If splashes are likely to occur, wear safety glasses with side-shields. None required for consumer use.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	If irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes, or clothing. Do not eat, drink, or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and Chemical Properties**

Physical State	Thin liquid	Odor	Floral, citrus
Appearance	Clear	Odor Threshold	No information available
Color	Clear		

Property	Values	Remarks/ Method
pH	9 - 11.5	None known
Melting/freezing point	No data available	None known
Boiling Point/Range	No data available	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	~1.0	None known
Water Solubility	Soluble in water.	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive Properties	Not explosive	
Oxidizing Properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None known.

Incompatible materials

None known.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation

Exposure to vapor or mist may irritate respiratory tract.

Eye Contact

May cause eye irritation.

Skin Contact

Prolonged contact may cause irritation.

Ingestion

Ingestion may cause irritation to mucous membranes and gastrointestinal irritation, nausea, vomiting, and diarrhea.

Information on toxicological effects

Symptoms

May cause redness and tearing of the eyes and skin redness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization

No information available.

Mutagenic Effects

No information available.

Carcinogenicity

Contains no ingredient listed as a carcinogen.

Reproductive Toxicity

No information available

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Chronic Toxicity

No known effect.

Target Organ Effects

Respiratory system, eyes, skin, gastrointestinal tract (GI).

Aspiration Hazard

No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

Not applicable.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Dispose of in accordance with all applicable federal, state, and local regulations.

Contaminated Packaging

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION**Chemical Inventories**

TSCA All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

DSL/NDSL All components are on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Avoid contact with foods.

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethanolamine 141-43-5	X	X	X	-	X

International Regulations**Canada****WHMIS Hazard Class**

D2B Toxic Materials



16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard	1	Flammability	0	Instability	0	Physical and Chemical Hazards	-
<u>HMIS</u>	Health Hazard	1	Flammability	0	Physical Hazard	0	Personal Protection	B

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Preparation Date November 9, 2015

Revision Date August 8, 2017

Revision Note Removal of dye.

Reference XXXXXXX/166962.001

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet

Material Safety Data Sheet



Section 1: PRODUCT AND COMPANY IDENTIFICATION

Vi-Jon Incorporated
8515 Page Avenue
Saint Louis, MO 63114

Phone: 314-427-1000
In Case of Spill Emergency Contact:
Chemtrec: 1-800-424-9300

Product Name: Germ-X Hand Sanitizer

Product Code: 028

Product Use: Hand Sanitizer

Issue Date: 04/23/2008

Supersedes Date: July 2007

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Keep out of reach of children.

Appearance/Odor: Clear gel with alcohol/citrus odor.

WARNING:

Flammable (ethyl alcohol and isopropyl alcohol)

Target (ethyl alcohol and isopropyl alcohol) respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

Potential Health Effects: See Section 11 for more information.

Symptoms of Exposure:

Inhalation: May cause irritation of the respiratory tract.

Ingestion: May cause nausea, vomiting and diarrhea.

Eyes: May cause irritation to the eyes.

Skin: None expected.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	% by Wt.
Ethyl Alcohol	64-17-5	59%
Isopropyl Alcohol	67-64-0	3%

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

- Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting. If the material is swallowed, get medical attention or advice.
- Skin:** If irritation is experienced, flush with water. If irritation persists, get medical attention.
- Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

Section 5: FIRE FIGHTING MEASURES

Flash Point: 71°F (21.6°C)

Method Used: ASTM D-93

Lower Flammable Limit: 3.3 (Volume % in air)

Upper Flammable Limit: 19.0 (Volume % in air)

Auto Ignition: (Ethyl Alcohol) 363°C

Flammability Classification: Flammable Liquid IB

Extinguishing Media: Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

Products of Combustion: Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Fire Fighting Equipment/Instructions: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

NFPA Rating: Health:2 Fire: 3 Reactivity:0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Environmental Precautions: Prevent discharge to open waters.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-Up: Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

Section 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks and flame. Prevent contact with eyes. Avoid inhalation.

Storage: Keep the container tightly closed and in a cool, well ventilated place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Ethyl Alcohol (64-17-5)

ACGIH: 1,000 ppm TWA

OSHA: 1,000 ppm TWA; 1,900 mg/m³ TWA

Isopropyl Alcohol (67-63-0)

ACGIH: 200 ppm TWA

OSHA: 400 ppm TWA; 980 mg/m³ TWA

Engineering Controls: Normal room ventilation is usually adequate under normal use.

Personal Protective Equipment (PPE)

Eye/Face Protection: None needed under normal use.

Skin Protection: None needed under normal use.

Respiratory Protection: None needed under normal use.

General Hygiene Considerations: None needed under normal use.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Color: Clear Translucent

Odor: Alcohol/Citrus

Physical State: Gel

pH: Not Available.

Vapor Density: (Ethyl Alcohol) 1.6

Boiling Point: (Ethyl Alcohol) 78.5°C

Vapor Pressure: (Ethyl Alcohol) 57.3 hPa at 20°C

Melting Point: (Ethyl Alcohol) -114.1°C

Freezing Point: Not Available

Flash Point (see section 5)

Flammability Properties (see section 5)

Solubility (in water): Soluble

Specific Gravity @ 25°C: 0.88-0.92

Evaporation Rate: Not Available

Octanol/Water partition coefficient (K_{ow}): (Ethyl Alcohol): - 0.32

Auto-ignition temperature: (Ethyl Alcohol) 363°C

Decomposition temperature: Not Available

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal ambient temperatures 70°C (21°C)

Condition to Avoid: Avoid excessive heat or sources of ignition.

Incompatible Materials: This product reacts with strong acid, strong bases, and oxidizing agents.

Hazardous Decomposition: upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Reactions: Hazardous polymerization will not occur.

Section 11: TOXICOLOGY INFORMATION

ACUTE EFFECTS:

A: General Product information

Product contains ethyl alcohol and isopropyl alcohol.

B: Component Analysis LD50

Ethyl Alcohol (64-17-5)

Oral LD50 Rat: 7060 mg/kg

Isopropyl Alcohol (67-63-0)

Inhalation LC50 Rat: 72.6 mg/L/4H

Oral LD50 Rat: 4396 mg/kg

Dermal LD50 Rat: 12800 mg/kg

Dermal LD50 Rabbit: 12870 mg/kg

CHRONIC EFFECTS:

Component

Ethyl Alcohol (64-17-5)

Carcinogenicity: ACGIH A4 – Not Classifiable as a Human Carcinogen

Neurotoxicity: This product contains ethyl alcohol, a central nervous system target.

Mutagenicity: No information available for product.

Reproductive: No information available for product.

Developmental: Ethyl alcohol is a developmental toxin when consumed during pregnancy.

Target Organs: When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

Isopropyl Alcohol (67-63-0)

Carcinogenicity: ACGIH A4 – Not Classifiable as a Human Carcinogen

Neurotoxicity: This product contains isopropyl alcohol, a central nervous system target.

Mutagenicity: No information available for product.

Reproductive: No information available for product.

Developmental: No information available for product.

Target Organs: skin, eyes, CNS, Kidney, Developmental and respiratory system.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Ethyl Alcohol (64-17-5)

96 hour LC50 Oncorhynchus mykiss: 12,900 mg/L (flow-through) (30days old)
96 hour LC50 Pimephales promelas 14.2 mg/L
5 min EC50 Photobacterium phosphoreum: 35,470 mg/L
30 min EC50 Photobacterium phosphoreum: 34,634 mg/L
48 hour EC50 Daphnia magna: 9,268 mg/L
24 hour EC50 Daphnia magna: 10,800 mg/L

Ecotoxicity: Isopropyl Alcohol (67-63-0)

96 Hr EC50 Scenedesmus Subspicatus: >1000 mg/L
72 Hr EC50 Scenedesmus subspicatus:>1000 mg/L
96 Hr LC50 Pimephales promelas: 9640 mg/L [flow through]
96 Hr LC50 Pimephales promelas: 94900 mg/L [flow through] (29 days old)
96 Hr LC50 Pimephales promelas: 61200 mg/L [flow through] (31 days old)
5 min EC50 Photobacterium phosphoreum: 35390 mg/L
48 Hr EC50 Daphnia magna: 13299 mg/L

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local regulations.

Section 14: TRANSPORTATION INFORMATION

Shipping Name: Consumer Commodity ORM-D

Proper Shipping Name for Non-Consumer Commodity: Ethyl Alcohol Solutions, 3, UN1170, PGIII.

IMDG: UN1170, Ethanol Solutions (Ethyl Alcohol Solution), Class 3, PG II (21.6C cc) EmS # F-E S-D, Limited Quantity

Section 15: REGULATORY INFORMATION

Ethyl alcohol and isopropyl alcohol, components of this product, are on the TSCA inventory.

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This material contains ethyl alcohol a developmental toxicity when in alcoholic beverages.

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS#	CA	MA	MN	NJ	PA
Isopropyl Alcohol	67-63-0	YES	YES	YES	YES	YES
Ethyl alcohol	64-17-5	YES	YES	YES	YES	YES

Section 16: Other Information

Prepared by: Vi-Jon Inc.

Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Vi-Jon, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Vi-Jon be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE BY VI-JON HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this MSDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.

This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.

S.C. Johnson Wax
 Racine, Wisconsin 53403-5011
 Phone: (414) 631-2777
 Emergency Phone: (800) 228-5635
 Extension 092
 International Emergency Phone:
 Extension 092

4=Very High
 3=High
 2=Moderate
 1=Slight
 0=Insignificant

HAZARD RATING	
HMIS	NFPA
0 Health	
4 Flammability	
0 Reactivity	

MATERIAL SAFETY DATA SHEET

SECTION I-PRODUCT IDENTIFICATION

PRODUCT NAME: GLADE AIR FRESHENER - ALL FRAGRANCES			PRODUCT CODE: 10545-1	
CHEMICAL OR COMMON NAME: NA	DATE ISSUED: 02/05/92	SUPERSEDES: 10/30/87	MSDS SECTIONS WITH CHANGES: PREPARED BY: Terry A. Meyers Chemical Info. Adm.	

SECTION II-INGREDIENT INFORMATION

INGREDIENTS	WEIGHT %	EXPOSURE LIMIT
ISOBUTANE\PROPANE (CAS# 75-28-5, 74-98-6)	25-35	1000PPM (OSHA PEL) (PROPANE)
WATER	65-75	NA

SECTION III-PHYSICAL DATA

APPEARANCE/ODOR: DISPENSED AS A SPRAY MIST WITH FRAGRANT ODOR	SPECIFIC GRAVITY (H2O=1): 0.8
VAPOR PRESSURE (mm Hg): ND	PERCENT VOLATILE BY VOLUME (%): NA
SOLUBILITY IN WATER: Appreciable	VAPOR DENSITY (Air=1): ND
FREEZING POINT (°F): ND	BOILING POINT (°F): ND
TH: ND	EVAPORATION RATE (Butyl Acetate=1): NA
VOC (as packaged, minus H2O): ND	THEORETICAL VOC (lb/gal): ND

SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT (°F) (Method Used): UNDER 20(TCC) (PROPELLANT)
FLAMMABLE LIMITS: ND
EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical, Water Fog.
SPECIAL FIREFIGHTING PROCEDURES: Normal fire fighting procedures may be used. Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers.
UNUSUAL FIRE AND EXPLOSION HAZARDS: No special hazards known.

SECTION V-HEALTH HAZARD DATA

PRIMARY ROUTE OF ENTRY: NA
SIGNS AND SYMPTOMS: NA
FIRST AID PROCEDURES: NA
MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

MATERIAL SAFETY DATA SHEET

Page 2

S.C. Johnson Wax
1525 Howe Street
Racine, Wisconsin 53403

GLADE AIR FRESHENER - ALL FRAGRANCES
Product Number: 10545
Serial Number: 1

SECTION VI-REACTIVITY DATA

STABILITY:	Stable
STABILITY-CONDITIONS TO AVOID:	None known
INCOMPATIBILITY:	None known
HAZARDOUS DECOMPOSITION PRODUCTS:	When exposed to fire, produces normal products of combustion.
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS POLYMERIZATION-CONDITIONS TO AVOID:	None known

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Eliminate all ignition sources. Rinse affected area thoroughly with water.
WASTE DISPOSAL INFORMATION:	Recycle empty aerosol can to nearest steel recycling center. Use up package or give to someone who can.

SECTION VIII-SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	No special requirements under normal use conditions.
VENTILATION:	General room ventilation adequate.
PROTECTIVE GLOVES:	No special requirements under normal use conditions.
EYE PROTECTION:	No special requirements under normal use conditions.
OTHER PROTECTIVE MEASURES:	NSR

SECTION IX-SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING:	CAUTION: CONTENTS UNDER PRESSURE. DO NOT SET ON STOVE OR RADIATOR OR KEEP WHERE TEMPERATURE WILL EXCEED 120 F AS CONTAINER MAY BURST. DO NOT PUNCTURE OR THROW IN FIRE. KEEP OUT OF REACH OF CHILDREN.
OTHER HANDLING AND STORAGE CONDITIONS:	Keep out of reach of children. Do not pressurize, cut, heat, weld or expose container to flame; explosion could occur.

SECTION X-ADDITIONAL INFORMATION

ADDITIONAL INFORMATION:	FACTORY MUTUAL LEVEL 1 AEROSOL
-------------------------	--------------------------------

SECTION XI-TRANSPORTATION INFORMATION

DOT CLASS:	
DOT #	
SHIPPING NAME:	
DOT NOTES:	

MATERIAL SAFETY DATA SHEET

Page 3

S.C. Johnson Wax 1525 Howe Street Racine, Wisconsin 53403	GLADE AIR FRESHENER - ALL FRAGRANCES Product Number: 10545 Serial Number: 1
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NA-Not Applicable, NE-Not Established, NSR-No Special Requirement, ND-Not Determined

The information herein is given in good faith. No warranty expressed or implied is made. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and local laws and regulations. The information contained in this form is confidential and is submitted solely for your organization's internal use.

4-106 (Rev. 5-10/95)

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Information

Product Name: Great Value Disinfecting Wipes
 Chemical Family: Quaternary Ammonium Chlorides
 Product Use: Disinfecting Wipes
 Distributor Name: WalMart Inc.
 Distributor Address: 702 SW 8th Street
 Bentonville, AR 72716
 Emergency Phone #: 631-952-0100 / 1-888-401-5450
 Date: 6-16-2010

Prepared/Updated:

Hazardous Material Information System (HMIS)

Health: 2
 Fire Hazard: 1
 Reactivity: 0
 Precautionary Label: Caution
 Statements:

Section 2. Composition and Information on Ingredients

Ingredients	CAS#	%	Exposure Limits
Water	7732-18-5	99.768	N/A
Quaternary Ammonium Chloride Sol	N/A	0.093	N/A

Section 3. Hazards Identification

Route of Entry: Eyes , Skin, Ingestion
 Potential Acute Health: None known
 Effects:

Section 4. First Aid Measures

Eye: Flush immediately with water for 15-30 minutes being careful to flush behind the eyelids.
 Contact: Seek medical attention if irritation persists or develops.
 Inhalation: Move to air. Seek medical attention.
 Skin: Wash with soap and water. Seek medical attention if irritation persists or develops.
 Contact: Prolonged or repeated contact may dry skin and cause irritation.
 Ingestion: Immediately drink plenty of water. Seek medical attention.

Section 5. Fire Fighting Measures

Flashpoint: >200 F Method: Tag Open Cup
 Fire Fighting Media and Instructions: Extinguish with water spray or carbon dioxide; dry chemical powder or appropriate foam. Normal fire fighting procedure may be used.
 Unusual Fire and Explosion Hazards: None Known

Section 6. Accidental Release Measures

Personal Precautions: Put on appropriate personal protective equipment (see section 8).
 Environmental Precautions: In the event of major spillage: Use appropriate containment to avoid environmental contamination. Collect spilled material. Place in suitable clean, dry containers for disposal by approved methods.

Section 7. Handling and Storage

Handling: Avoid contact with eyes. Use appropriate hygiene methods when handling product. For industrial use only.
 Storage: Store in a cool well ventilated area. Protect from freezing. Keep out of reach of children.

Section 8. Exposure Controls & Personal Protection:

Engineering Controls: None usually needed. General room ventilation is adequate.
 Personal Protection:
 Eyes: N/A
 Hands: N/A
 Respiratory: N/A
 Additional Measures: N/A
 Listed Carcinogen: No ingredients listed by NTP, IARC or OSHA Subpart Z.
 Medical Condition: Persons with pre-existing skin disorders may be susceptible to irritating effects.
 Aggravated:

Section 9. Physical and Chemical Properties

Fragrance: Lemon or Fresh
 Physical State: Wipes-Impregnated material
 Color: N/A
 pH: 9.5-10.5
 Specific Gravity: 1.00
 % Volatile by Weight: -79%
 Freezing Point: 32 F
 Solubility in Water: N/A

Section 10. Stability and Reactivity

Stability and Reactivity: Stable
 Conditions of Instability: None Known
 Incompatibility with Various Substances: None Known

Decomposition Products Hazardous

Polymerization: When exposed to fire: Produces normal products of combustion. NH₃, NO₂, CO, CO₂

Section 11. Toxicological Information

Effects of Chronic Exposure: None Known

Section 12. Ecological Information: None Known

Section 13. Disposal Considerations: Dispose of all wastes according to all federal, state and local legislation.

Section 14. Transport Information

DOT: NOI Non-Hazardous Consumer Commodity
 Classification:

Section 15. Regulatory Information

Reporting in this section is based on ingredients disclosed in Section 2

U.S. Regulation: Not Regulated.
 Federal: Not Regulated.
 State: Not Regulated.
 Registered Product Information: EPA Registered. 6836-313-41348

Sara Section 312:

Immediate (Acute) Health

Sara Section 313: Toxic Release Inventory Reporting

Registered Product Information: N/A

Section 16. Other Information None reported.

Other Special Considerations: None reported.

Manufacturer: U.S. Nonwovens

Address: 100 Emjay Blvd.
 Brentwood, NY 11717

Version: 1

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and must comply with all federal, state, Provincial and Local Laws and Regulations.

Great Value Disinfecting Wipes

PSDS

1. PRODUCT AND COMPANY IDENTIFICATION

Validation date:	June 25, 2008
Product code:	0038832 (#1184-180)
Product name:	Jet-Dry Dishwasher Cleaner by the Makers of Electrasol All Scents (Liquid)
Product Description:	Dishwasher cleaner that removes limescale and mineral residues.
UPC Code	51700-76631
Synonyms:	No information available
Chemical characterisation:	No data is available on the product itself.
Manufacturer:	Reckitt Benckiser (Canada) Inc. 1680 Tech Avenue, Unit 2 Mississauga, Ontario L4W 5S9 CANADA
Transportation Emergencies:	1-800-424-9300 (U.S. & Canada) Outside North America Chemtrec:703-527-3887

Emergency telephone number: 1-800-888-0192 (Canada)

2. COMPOSITION/ INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %	Exposure Limits: TLV/PEL
Citric Acid anhydrous	77-92-9	20 - 30%	Not available
Sodium Cumenesulphonate	28348-53-0	1 - 5%	TWA: 6 mg/m3 (Huels AG Marl)

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

EYE IRRITANT. SKIN IRRITANT. Avoid contact with skin and eyes. Contains Citric Acid. DO NOT mix with chlorine bleach or any other products as harmful fumes may result.

KEEP OUT OF REACH OF CHILDREN

4. FIRST AID MEASURES

Inhalation:	Move to fresh air.
Skin contact:	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician
Ingestion:	Rinse mouth. NEVER give anything by mouth to an unconscious person. Consult a physician or Poison Control Centre if necessary.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. If symptoms develop or persist seek medical advice. Remove any contact lenses.
Notes to physician:	No information available.
Aggravated Medical Conditions:	No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	As for surrounding fire.
Extinguishing media which must not be used for safety reasons:	No information available.
Specific hazards:	Not applicable.
Unusual hazards:	None known.
Special protective equipment for firefighters:	Wear self contained breathing apparatus and protective clothing appropriate for fire fighting if necessary.
Specific methods:	Use water spray, foam, dry chemical or carbon dioxide, as suitable for the surrounding fire.
Flash point:	No information available.
Autoignition temperature:	No information available.
Flammability Limits in Air:	
Lower	No information available
Upper	No information available

<u>NFPA:</u>	Health: 2	Flammability: 0	Instability: 0
<u>HMIS:</u>	Health: 2	Flammability: 0	Physical Hazard: 0

Key:

See also section 3

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use personal protective equipment.
Environmental precautions:	Do not allow material to contaminate ground water system.
Accidental Spill:	Clean-up methods - small spillage:

Wearing rubber gloves and eye protection, carefully absorb with wet paper towels and rinse surface. Discard into a suitable waste container for disposal as a household waste.

Clean-up methods - large spillage:

Wearing rubber gloves and eye protection, carefully collect and dispose of according to local and regional authority requirements. Remaining residues could be rinsed using plenty of water.

7. HANDLING AND STORAGE

Handling:	EYE IRRITANT SKIN IRRITANT. Wear safety goggles and rubber gloves when handling. Contains Citric acid. Do not mix with chlorine bleach or any other products. Harmful fumes may result.
Storage:	Store in original container in areas inaccessible to small children and pets. KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: none required

Personal Protective Equipment

Respiratory protection:	Self-contained breathing apparatus (SCBA).
Hand protection:	Wear impermeable gloves when handling. Emergency responders should wear impermeable gloves.
Skin and body protection:	Usual safety precautions while handling the product will provide adequate protection against this potential effect.
Eye protection:	Wear safety glasses with side shield if the possibility of splashing exists. Emergency responders should wear full eye and face protection
Hygiene measures:	Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.
Appearance:	Liquid.
Colour:	Colorless
Odour:	Perfumed
Boiling point/range:	not available
pH:	2,59 (1% aqueous solution)
Autoignition temperature:	No information available.
Density:	1,122 g/l
Vapor density:	Not determined.
Vapour pressure:	Not determined.
VOC content(%):	No information available.
<u>Explosion limits:</u>	
- upper:	No data available.
- lower:	No data available.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	Hazardous polymerisation does not occur.
Hazardous decomposition products:	Oxides of carbon and unknown organic compounds.
Materials to avoid:	Do not mix with other household chemicals
Conditions to avoid:	Direct heating, dirt, chemical contamination, sunlight, ultraviolet (UV) or ionizing radiation.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information

Product Information

LC50/inhalation/4h/rat =	No information available.
LD50/dermal/rabbit =	No information available.
LD50/oral/rat =	No information available.

Local effects

Skin irritation:	Irritating to skin
Eye irritation:	Irritating to eyes
Inhalation	None expected during normal conditions of use
Ingestion	Irritating to mouth, throat and stomach.
Sensitization	Not expected to be a skin sensitiser
Chronic toxicity:	No information available

Specific effects

Carcinogenic effects:	Not listed as carcinogenic by OSHA, NTP or IARC
Mutagenic effects:	No information available
Reproductive toxicity:	No information available
Target organ effects:	No information available

Information is based on data on the components and the toxicology of similar products

12. ECOLOGICAL INFORMATION

Product Information

Mobility:	Not applicable.
Bioaccumulative potential:	Not applicable.
Ecotoxicity effects:	No data available.
Aquatic toxicity:	No information available.

Component Information

Components

Citric Acid anhydrous

Ecotoxicity:= 14 mg/L 15 min EC50 Photobacterium phosphoreum

Components

Sodium Cumenesulphonate

Ecotoxicity:>1000 mg/L 24 h EC50 Daphnia magna (Crustacea)

Other information

Ozone depletion potential; ODP; (R-11 = 1) =

No information available.

Global warming potential (GWP) =

No information available.

Additional ecological information:

Information given is based on data on the components and the ecotoxicology of similar products.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Dispose of in accordance with local regulations.

Contaminated packaging:

Dispose of as unused product.

14. TRANSPORT INFORMATION

UN/Id No:

No information available

DOT:

Proper shipping name: No information available

U.S. DOT - Hazard Class: No information available

Subsidiary risk: No information available

Packing group: No information available

DOT RQ (lbs): No information available

ERG No: No information available

TDG (Canada):

Proper shipping name: No information available

Status: No information available

Packing group: No information available

IMDG/IMO

Proper shipping name: No information available
Class: No information available
Subsidiary risk: No information available
Packing group: No information available
IMDG page: No information available
Marine pollutant: No information available
EMS: No information available
MFAG: No information available
Maximum quantity: No information available

ADR/RID

Proper shipping name: No information available
Class: No information available
Subsidiary risk: No information available
Packing group: No information available
ADR/RID-labels: No information available
HIN: No information available
CEFIC Tremcard No: No information available

ICAO:

Proper shipping name: No information available
Class: No information available
Subsidiary risk: No information available
Packing group: No information available
Maximum quantity: No information available

15. REGULATORY INFORMATION

International Inventories

Components	PICCS:	TSCA:	DSL:	NDSL:	ENCS:	CHINA:	AICS:	EINECS-No
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Citric Acid anhydrous	Present	Present	Present		2-1318	Present	Present	201-069-1
Sodium Cumenesulphonate	Present	Present	Present:			Present	Present	248-983-7

U.S. Regulations:

Sara Title III, Section 313 Toxic Chemical Notification & Release Reporting:

None

California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:

None

Canada

WHMIS hazard class: Not determined.

16. OTHER INFORMATION

National Fire Protection Association  (U.S.A.):	HMIS (U.S.A.):	Health Hazard 2
		Fire Hazard 0
		Reactivity 0
		Personal Protection D

Reason for revision: A component has been added to the formulation. SEE SECTION 2.

Additional advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

Prepared by: Product Safety Department

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards

are described herein, we cannot guarantee that these are the only hazards that exist.

MATERIAL SAFETY DATA SHEET

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MSDS # 110338037

PLEDGE® AEROSOL - LEMON

Date Issued: 03Feb1999

Supersedes: 19Feb1996

US MANUFACTURER:

S.C. Johnson & Son, Inc.
Phone: (800) 725-6737
Racine, Wisconsin 53403-2236
Emergency Phone: (888) 779-7920
International Emergency Phone:
(262) 886-1480

CANADIAN MANUFACTURER:

S.C. Johnson and Son, Limited
Phone: (800) 725-6737
1 Webster Street
Brantford, Ontario N3T 5R1
Transportation Emergency:
CANUTEC (collect) (613) 996-6666
Poison Control: (888) 779-7920

HAZARD RATING	HMIS	HAZARD	NFPA	DISTRIBUTED IN CANADA BY:
4-Very High	0	Health	0	S.C. Johnson and Son, Limited
3-High	4	Flammability	4	Phone: (800) 725-6737
2-Moderate	0	Reactivity	0	1 Webster Street
1-Slight		Special		Brantford, Ontario N3T 5R1
0-Insignificant				

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT NAME..... PLEDGE® AEROSOL - LEMON
REASON FOR CHANGE..... No significant changes.
PRODUCT USE..... Furniture care

UPC	SCJ CODE	QUANTITY	US SIZE	CANADIAN SIZE
62300 00332	21009	12		200 GM
62300 00334	21010	12		350 GM
62300 00329	329	12		500 GM
19800 08399	329	12	20 oz	
46500 00338	329	12	12.5 oz	

SECTION 2 - INGREDIENT INFORMATION

INGREDIENT	WEIGHT%	EXPOSURE LIMIT/TOXICITY
Silicones (CAS# 63148-62-9).....	3-7	NOT ESTABLISHED
Butane (CAS# 106-97-8).....	1-5	800 ppm ACGIH/OSHA TWA
Isobutane (CAS# 75-28-5).....	1-5	NOT ESTABLISHED
Propane (CAS# 74-98-6).....	1-5	1000 ppm OSHA PEL
Isoparaffinic Hydrocarbon Solvent..... (CAS# 68920-06-9)	5-10	NOT ESTABLISHED
Water (CAS# 7732-18-5).....	65-80	NOT ESTABLISHED

SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11)

ROUTE(S) OF ENTRY..... Skin contact. Ingestion.

EFFECTS OF ACUTE EXPOSURE:

EYE..... May cause: Sensation of irritation.
SKIN..... None known.
INHALATION..... None known.
INGESTION..... Aspiration into the lungs may cause severe health effects.
MEDICAL CONDITIONS..... None known.

GENERALLY RECOGNIZED
AS BEING AGGRAVATED
BY EXPOSURE

MATERIAL SAFETY DATA SHEET

Page 2 of 4

MSDS # 110338037

PLEDGE® AEROSOL - LEMON

Date Issued: 03Feb1999

Supersedes: 19Feb1996

SECTION 4 - FIRST AID MEASURES

EYE CONTACT..... Rinse with plenty of water.
SKIN CONTACT..... Wash contaminated area with water and soap.
INHALATION..... Remove to fresh air.
INGESTION..... Immediately drink 1-2 glasses of water or milk. Seek immediate medical attention.

SECTION 5 - FIRE AND EXPLOSION INFORMATION

FLASH POINT..... < 20°F (< -7°C) (TCC) (propellant)
FLAMMABLE LIMITS..... Not available.
AUTOIGNITION..... Not applicable.
TEMPERATURE
EXTINGUISHING MEDIA.... Foam. CO2. Dry chemical. Water fog.
SPECIAL FIREFIGHTING... Fight fire from maximum distance or protected area. Cool and use
PROCEDURES caution when approaching or handling fire-exposed containers.
Fire fighters should wear self-contained breathing apparatus and protective clothing.
UNUSUAL FIRE AND..... Aerosol product - Containers may rocket or explode in heat of
EXPLOSION HAZARDS fire.

SECTION 6 - PREVENTIVE RELEASE MEASURES

STEPS TO BE TAKEN IN... Eliminate all ignition sources. Absorb with oil-dri or similar
CASE MATERIAL IS inert material. Sweep or scrape up and containerize. Rinse
RELEASED OR SPILLED affected area thoroughly with water.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONARY..... CAUTION: FLAMMABLE: Contains: petroleum distillate. CONTENTS
INFORMATION UNDER PRESSURE. Do not use near open fire, flames or heat. Do not puncture or incinerate. Do not store at temperatures above 120 °F (50 °C). Do not spray or use on floors. Keep out of reach of children.
OTHER HANDLING AND.... Store in a cool, dry place with adequate ventilation. Keep from
STORAGE CONDITIONS freezing.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION. No special requirements under normal use conditions.
VENTILATION..... No special requirements.
PROTECTIVE GLOVES..... No special requirements under normal use conditions.
EYE PROTECTION..... No special requirements under normal use conditions.
OTHER PROTECTIVE..... No special requirements.
MEASURES

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

COLOR..... Opaque
PRODUCT STATE..... Dispensed as a spray mist.
ODOR..... Lemon
pH..... Not applicable.
ODOR THRESHOLD..... Not available.
SOLUBILITY IN WATER.... Dispersible
SPECIFIC GRAVITY..... 0.828
(H2O=1)
VAPOR DENSITY (AIR=1).. Not available.

MATERIAL SAFETY DATA SHEET

Page 3 of 4

MSDS # 110338037

PLEDGE® AEROSOL - LEMON

Date Issued: 03Feb1999

Supersedes: 19Feb1996

----- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (continued) -----

EVAPORATION RATE (BUTYL ACETATE=1) Not available.
VAPOR PRESSURE (mm HG). Not available.
BOILING POINT..... Not applicable.
FREEZING POINT..... Not applicable.
COEFFICIENT OF..... Not available.
WATER/OIL
PERCENT VOLATILE BY.... Not available.
VOLUME (%)
VOLATILE ORGANIC..... Hydrocarbon propellant Isoparaffinic Hydrocarbon.
COMPOUND (VOC)
THEORETICAL VOC..... 1.44-1.46 lb/gal
(LB/GAL)

----- SECTION 10 - STABILITY AND REACTIVITY -----

STABILITY..... Stable
STABILITY - CONDITIONS. Not applicable.
TO AVOID
INCOMPATIBILITY..... No special requirements.
HAZARDOUS DECOMPOSITION PRODUCTS No special requirements.
HAZARDOUS..... Will not occur.
POLYMERIZATION
HAZARDOUS..... Not applicable.
POLYMERIZATION -
CONDITIONS TO AVOID

----- SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3) -----

LD50 (ACUTE ORAL TOX).. Greater than 5000 mg/kg (rats)
LD50 (ACUTE DERMAL TOX) Not applicable.
LC50 (ACUTE INHALATION. TOX) Not applicable.
EFFECTS OF CHRONIC..... None known.
EXPOSURE
SENSITIZATION..... None known.
CARCINOGENICITY..... None known.
REPRODUCTIVE TOXICITY.. None known.
TERATOGENICITY..... None known.
MUTAGENICITY..... None known.

----- SECTION 12 - ECOLOGICAL INFORMATION -----

ENVIRONMENTAL DATA..... Not available.

----- SECTION 13 - DISPOSAL CONSIDERATIONS -----

WASTE DISPOSAL..... If possible, recycle empty aerosol can to nearest steel
INFORMATION recycling center. Use up package or give to someone who can.

MATERIAL SAFETY DATA SHEET

Page 4 of 4

MSDS # 110338037

PLEDGE® AEROSOL - LEMON

Date Issued: 03Feb1999

Supersedes: 19Feb1996

----- SECTION 14 - TRANSPORTATION INFORMATION -----

US DOT INFORMATION..... Buffing or polishing compounds, N.O.I. Consumer commodity, ORM-D
CANADIAN SHIPPING NAME. LEMON PLEDGE
TDG CLASSIFICATION..... Not applicable.
PIN/NIP..... Not applicable.
PACKING GROUP..... Not applicable.
EXEMPTION NAME..... Consumer commodity

----- SECTION 15 - REGULATORY INFORMATION -----

WHMIS CLASSIFICATION... Non-regulated.

All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).

This product is not subject to the reporting requirements under California's Proposition 65.

----- SECTION 16 - OTHER INFORMATION -----

ADDITIONAL INFORMATION. NFPA 30B Level 1 Aerosol.
EPA REGISTRATION #..... Not applicable.

----- PREPARATION INFORMATION -----

PREPARED BY..... Manufacturer's Technical Support Department. Refer to page 1
(Manufacturer) for contact information.

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

PRINT DATE: 04May2000

Material Safety Data Sheet

Product code: JJCUSW002194-0543

Revision date: 09-10-2008***

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Supplier:

Johnson and Johnson Consumer Companies, Inc.
199 Grandview Road

Distributor
Skillman, NJ
08558-9418

Customer service telephone:
Emergency telephone number:

1-800-526-3967

For 24-hour emergency assistance, call the 3E Company at 1 (877) 236-9871. Provide the technician with the following product tracking code: 2277.

Product name:

Synonyms:

LISTERINE® MOUTHWASHES AND MISTS

LISTERINE® ADVANCED WITH TARTAR PROTECTION ARTIC MINT® ADVANCED WITH TARTAR PROTECTION CITRUS® COOL MINT® FRESH BURSTCONTROL LISTERINE® CITRUS LISTERINE® MINT LISTERINE®® TOOTH DEFENSECITRUS LISTERINE® ADVANCED WITH TARTAR PROTECTION ARTIC MINT® PocketMist™ COOL MINT® PocketMist™ FRESH CITRUS

Product code:

Identified use:

JJCUSW002194-0543

For external use only.

↓
10-001-109
~~10-001~~

2. HAZARDS IDENTIFICATION

Emergency overview:

Flammable. This product may cause eye, skin or respiratory irritation.

Properties affecting health:

This product contains ethanol which can cause liver changes, central nervous system effects, and birth defects of the developing fetus.

This material is a controlled product under WHMIS.

Principle routes of exposure:

Eye Contact:

Contact with eyes may cause irritation.

Skin contact:

May cause skin irritation.

Ingestion:

Ingestion of larger amounts may cause depression to the central nervous system (e.g. dizziness, headache).

Inhalation:

Overexposure may cause drowsiness, dizziness, difficulty breathing and allergic reactions.

Physico-chemical properties:

No hazards resulting from the material as supplied

Hazard information:

Target Organ(s)

Not available.

Reproductive effects:

Ingestion of large quantities may cause fetal alcohol syndrome (due to alcohol content).

Mutagenic effects:

No effects expected.

Sensitization:

Sensitization is not expected.

Signs and symptoms:

None.

Medical conditions

aggravated by exposure:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product formulation contains no ingredients at their given percentages that are considered hazardous to your health.

Components	CAS Number	Synonyms	Weight %
ETHYL ALCOHOL (DENATURED)	64-17-5		20-30

4. FIRST AID MEASURES

Eye contact:	In the case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical attention.
Skin contact:	In the case of skin irritation or allergic reactions see a physician.
Ingestion:	If ingested, seek medical attention immediately and show the label.
Inhalation:	Move to fresh air immediately. If experiencing difficulty breathing, seek medical attention.
Protection of first-aiders:	Wear suitable gloves and eye/face protection.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use any extinguishing media which is suitable for the surrounding fire.
Extinguishing media which must not be used for safety reasons:	None.
Special protective equipment for firefighters:	Wear self-contained breathing apparatus for fire fighting if necessary.
Specific methods:	None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Ensure adequate ventilation.
Environmental precautions:	No special environmental precautions required.
Methods for cleaning up:	Wipe up with absorbent material (e.g. cloth, fleece).

7. HANDLING AND STORAGE

Handling:	
Technical measures/precautions:	No special technical protective measures required.
Safe handling advice:	None under normal processing.

Storage:	
Technical measures/storage conditions:	Store per labeled instructions.
Incompatible products:	Keep away from heat and sources of ignition

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH (TWA - 8hr)	ACGIH (STEL)	ACGIH (Ceiling)	Skin Absorption	OSHA (TWA - 8hr)	OSHA (Ceiling)	OSHA (STEL)
ETHYL ALCOHOL (DENATURED) (20-30%) 64-17-5	1000 ppm***				1000 ppm 1900 mg/m ³ ***		

Engineering controls:	Ensure adequate ventilation.
------------------------------	------------------------------

Personal protective equipment

Eye protection:	Eye and face protection recommended when manufacturing product.
------------------------	---

Hand protection:	Protective gloves recommended when manufacturing product.
Skin and body protection	Wear suitable protective clothing. Wear suitable gloves and eye/face protection.
Respiratory protection:	None required.
Other/general protection:	None required.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical state:	Liquid
Color:	Varies***
Odor:	Various*** **
Flavor:	Various*****

Important Health Safety and Environmental Information

Flash point:	92.7 °F 33.7 °C	Boiling point/range:	No information available
pH:	4.1*** - 4.3***	Water solubility:	Soluble

Other information

Explosivity: None.

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage conditions.
Materials to avoid:	None known
Conditions to avoid:	None known.
Hazardous polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Eye contact	May cause eye irritation.
Skin contact	May cause skin irritation.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled.

Components	LD50 Oral	LD50 Dermal	LC50 (mg/m ³) Inhalation	LC50 (ppm) Inhalation
ETHYL ALCOHOL (DENATURED) (20-30%) 64-17-5	= 7060 mg/kg Rat***			

Sub-Chronic/Chronic Toxicity

No repeat dose data available.

Specific effects

Target Organ(s)	Not available.
Developmental effects	Not available.

Components	ACGIH	IARC	OSHA	NTP
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11. TOXICOLOGICAL INFORMATION

Reproductive effects Not available.
Carcinogenic effects Not expected to be carcinogenic.

ETHYL ALCOHOL (DENATURED) (20-30%) 64-17-5		1***		X***
--	--	------	--	------

Genotoxic effects Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data is available on the product itself.
Aquatic toxicity effects: No data is available on the product itself.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate US, Federal, State and International regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: None.

14. TRANSPORT INFORMATION

Product not regulated by DOT, IATA/ICAO, IMO/IMDG, ADR/RID, or TDG.

15. REGULATORY INFORMATION

Components	SARA 313	SARA 302	CERCLA	CEPA
ETHYL ALCOHOL (DENATURED) (20-30%) 64-17-5				Listed***

SARA (311, 312) hazard class

Immediate health: None.
Delayed health: None.
Fire: None.
Sudden Release of Pressure Hazard: None.
Reactivity: None.

State Regulations

Components	CAS Number	NJRTK	PARTK	MARTK	RIRTK
ETHYL ALCOHOL (DENATURED) (20-30%)	64-17-5	Listed***	Listed***	Listed***	Listed***

International Inventories

Components	TSCA	DSL	NDSL
ETHYL ALCOHOL (DENATURED) (20-30%)	X***	X***	Not Listed

WHMIS:

WHMIS trade secret:

None.

WHMIS hazard class:

B2 Flammable Liquids



Notes:

1. SARA = Superfund Amendments and the Reauthorization Act.
2. CERCLA = Comprehensive Environmental Response, Compensations and Liability Act.
3. FIFRA = Federal Insecticide, Fungicide and Rodenticide Act.
4. TSCA = Toxic Substance Control Act.
5. WHMIS = Canadian Workplace Hazardous Materials Information System.
6. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

This data sheet contains changes from the previous version in section(s):

None.

MSDS format:

- North American Format - U.S. and Canada

This Material Safety Data Sheet was prepared in accordance with ANSI Z400.1-2004.

Disclaimer:

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End of Safety Data Sheet

Section 1. Product and Company Identification

Product Name	LYSOL® BRAND DISINFECTANT TOILET BOWL CLEANER WITH BLEACH	MSDS#	Not available.
Product Description	Not available.	Validation Date	7/25/2000
Manufacturer	Reckitt Benckiser Inc. 1655 Valley Road Wayne, N.J. 07474	Print Date	1/18/2001
Product Identifier	EPA Registration No. 777-83	In case of Emergency:	Telephone: 800-228-4722
Item Number	362087	Transportation Emergencies:	Chemtrec: 800-424-9300
Formula Number	211-089, 492-053B		
UPC Number	19200-74246 (16 oz.); 19200-74246 (16 oz); 19200-74468 (21.3 oz); 19200-75055 (24 oz); 19200-75132 (30 oz)		

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) SODIUM HYPOCHLORITE	7681-52-9	2.5	Not available.
2) SODIUM HYDROXIDE	1310-73-2	<1	CEILING: 2 mg/m3 from ACGIH (TLV) TWA: 2 mg/m3 from OSHA

Section 3. Hazards Identification

Emergency Overview	WARNING: Eye and skin irritant. Harmful if swallowed. Do not get in eyes, on skin or on clothing. For sensitive skin or prolonged use, wear gloves. Odors may irritate. Use only in well ventilated areas. Avoid prolonged breathing of vapor. KEEP OUT OF REACH OF CHILDREN. Not recommended for use by persons with heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease.
---------------------------	---

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes, remove contact lenses and continue flushing eyes for at least 15 minutes. Get medical attention immediately.
Skin Contact	Immediately wash with plenty of soap and water. If irritation persists call a physician.
Inhalation	Remove to fresh air. If irritation persists or there is any trouble breathing, get immediate medical attention.
Ingestion	If swallowed, drink a glass of water and get prompt medical attention.

Section 5. Fire and Explosion Data

Flammability	Not flammable. See Section 14 for any Shipping Classifications.
Flash Point	CLOSED CUP: Higher than 93.3°C (>200°F). (Tagliabue).
Explosive Limits in Air	Not available.
Products of Combustion	Not available.
Fire and Explosion Hazards	Acid and heat accelerate decomposition. Decomposition products may include chlorine.
Fire Fighting Media and Instructions	Use water spray, foam, dry chemical or carbon dioxide, as suitable for the surrounding fire.
Special Fire Fighting Instructions	Wear self-contained breathing apparatus and protective clothing typical for fighting a chemical fire.

Section 6. Accidental Release Measures

Accidental Spill	Small spills: Soak up with an inert absorbent material and dispose of in an appropriate waste container. Rinse surface residue and flush to sink or sanitary sewer. Large spills: Contain and collect for later disposal according to local, state or federal regulations.
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Section 7. Handling and Storage

Handling and Storage	WARNING: Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. For sensitive skin or prolonged use, wear gloves. Odors may irritate. Use only in well ventilated areas. Avoid prolonged breathing of vapor. Harmful if swallowed. Not recommended for use by persons with heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease. THIS PRODUCT SHOULD NOT BE USED OR PLACED ON TOILET BOWL LIDS, VANITIES, SINKS, BATHTUBS, CABINETS, COUNTER TOPS, RUGS, ETC. DO NOT mix with household chemicals, such as products containing ammonia, other toilet bowl cleaners or acidic cleaners, or with other Lysol® products, as hazardous gases may be released. Store in original container out of reach of small children. Keep securely closed in a cool, well ventilated area. Do not reuse empty container. When empty, discard in trash. KEEP OUT OF THE REACH OF CHILDREN. It is a violation of federal law to use this product in a manner inconsistent with its labeling.
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Section 8. Exposure Controls/Personal Protection

Ventilation Requirements	Use only in well ventilated areas.
Eye Protection	Do not get in eyes. Emergency responders should wear full eye and face protection.
Skin Protection	For sensitive skin or prolonged use, wear gloves. Emergency responders should wear impermeable gloves.
Respiratory Protection	None required under normal use conditions. Emergency responders should wear suitable respiratory protection where long term exposure to large areas of spilled liquid is possible such as a major spill, a fire or a clean-up operation.
Other Protection	Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Work/Hygienic Practices	Wash hands with soap and water after use.

Section 9. Physical and Chemical Properties

Description	Liquid. (Opaque viscous liquid.)	Odor	Fruity.
pH	12.9 [Basic.]	Color	Blue.
Boiling/Condensation Point	Not determined.		
Specific Gravity	1.05 @ 25°C.		
Vapor Pressure	Not determined.		
Vapor Density	Not determined.		
Viscosity	Not available.		
Solubility	Complete.		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity Data

Chemical Stability	The product is stable.
Conditions of Instability	None known.
Incompatibility with Various Substances	Do not mix with other household chemicals, such as products containing ammonia, toilet bowl cleaners, or acidic cleaners or with other Lysol® products, as hazardous gases may be released.
Hazardous Decomposition Products	May generate chlorine or oxygen.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Exposure effects

Eye Contact	Causes eye irritation. Do not get in eyes.
Skin Contact	Causes skin irritation. Do not get on skin or clothing. For sensitive skin or prolonged use, wear gloves.
Inhalation	Odors may irritate.
Ingestion	Harmful if swallowed.
Carcinogenicity	Not listed as carcinogenic by OSHA, NTP or IARC.

Section 12. Ecological Information

Ecotoxicity	Not available.
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Section 13. Disposal Considerations

Waste Disposal Dispose of in accordance with local, state and federal regulations. Do not reuse empty container. When empty, discard in trash.

Section 14. Transport Information

DOT Classification	ORM-D	
Proper Shipping Name	Consumer Commodity.	
DOT Identification Number	Not applicable.	
Packing Group	Not applicable.	
Maritime Transportation	Not available.	
Hazardous Substances Reportable Quantity	Not available.	
Special Provisions for Transport	ORM-D: For US Domestic Shipments Only.	
TDG Classification	Consumer Commodity - Transborder Consignment.	
ADR Classification	Not available.	
IMDG Classification	Corrosive liquid, basic, inorganic, n.o.s. (Sodium Hydroxide, Sodium Hypochlorite) class 8, UN3266, III-LTD QTY	
IATA Classification	DO NOT SHIP: Does not meet IATA requirements.	

Section 15. Regulatory Information

Federal and State Regulations SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting:
None

California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:
1) Not available.

Other Classifications **WHMIS (Canada)** Not controlled under WHMIS (Canada).

Section 16. Other Information

HMIS (U.S.A.)

Health Hazard	3
Fire Hazard	0
Reactivity	0
Personal Protection	a

National Fire Protection Association (U.S.A.)

Health	3	0	0	Fire Hazard
				Reactivity
				Specific hazard

NFPA Aerosol Level Not applicable.

Validated by Product Safety on 7/25/2000.

Printed 1/18/2001.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Section 1. Product and Company Identification

Product Name	LYSOL® BRAND ALL PURPOSE CLEANER, ALL SCENTS - CANADIAN	MSDS#	Not available.
Product Description	The all purpose cleaner that cleans and disinfects.	Validation Date	7/19/2001
Manufacturer	Reckitt Benckiser (Canada) Inc. 2 Wickman Road Toronto, Ontario M8Z 5M5	Print Date	8/7/2001
Product Identifier	Reg. No. 25248, P.C.P. Act	In case of Emergency:	Telephone: 800-888-0192
Item Number	59631-50913-04	Transportation Emergencies:	Chemtrec: 800-424-9300
Formula Number	588-004 / F/F #364430 (Country Scent™) & 636-112 / F/F #368514 (Summer Fresh™).		
UPC Number	59631-50913 (800 ml), 59631-50916 (1.2 L)		

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	5.0	Not available.
2) DIALKYL (C8-10) DIMETHYL AMMONIUM CHLORIDES	68424-95-3	0.25	Not available.
3) ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDES	8001-54-5	0.8	Not available.

Section 3. Hazards Identification

Emergency Overview WARNING: Eye irritant. Do not get in eyes. Avoid contact with skin. KEEP OUT OF REACH OF CHILDREN.

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes thoroughly with water, remove any contact lenses and continue to flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician or Poison Control Centre.
Skin Contact	In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.
Inhalation	Remove to fresh air.
Ingestion	Rinse mouth with water. Contact a physician or poison control center if symptoms develop.

Section 5. Fire and Explosion Data

Flammability	Not flammable. See Section 14 for any Shipping Classifications.
Flash Point	CLOSED CUP: Higher than 93.3°C (>200°F).
Explosive Limits in Air	Not available.
Products of Combustion	Carbon monoxide, carbon dioxide and other unknown organic compounds.
Fire and Explosion Hazards	None known.

**LYSOL® BRAND ALL PURPOSE CLEANER,
ALL SCENTS - CANADIAN**

Page Number: 2

Fire Fighting Media and Instructions	Use extinguishing media suitable for surrounding materials. Use DRY chemicals, CO2, water spray or foam.
Special Fire Fighting Instructions	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire.

Section 6. Accidental Release Measures

Accidental Spill	Dilute with water and mop up, or absorb with an inert material and place in an appropriate waste disposal container.
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Section 7. Handling and Storage

Handling and Storage	WARNING: Eye irritant. Do not get in eyes. Avoid contact with skin. Keep only in the original container. KEEP OUT OF REACH OF CHILDREN.
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Section 8. Exposure Controls/Personal Protection

Ventilation Requirements	None required.
Eye Protection	Avoid contact with eyes. Emergency responders should wear full eye and face protection.
Skin Protection	Avoid skin contact. Emergency responders should wear impermeable gloves.
Respiratory Protection	None required.
Other Protection	None required.
Work/Hygienic Practices	Washing with soap and water after use is recommended as good hygienic practice to prevent possible skin irritation and/or eye irritation from hand contact.

Section 9. Physical and Chemical Properties

Description	Liquid. (Clear liquid.)	Odor	Citrus. Floral. Woody.
pH	10.75 [Basic.]	Color	Green. Fluorescent.
Boiling/Condensation Point	Not available.		
Specific Gravity	1.013 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Viscosity	Not available.		
Solubility	Complete.		
Physical Chemical Comments	Not available. Not available.		

Section 10. Stability and Reactivity Data

Chemical Stability	The product is stable.
Conditions of Instability	None known.
Incompatibility with Various Substances	None known.
Hazardous Decomposition Products	None known.

Continued on Next Page

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Hazardous Polymerization No.

Section 11. Toxicological Information**Exposure effects**

Eye Contact	Causes eye irritation.
Skin Contact	May cause skin irritation.
Inhalation	None known.
Ingestion	None known.
Carcinogenicity	Not listed as carcinogenic by OSHA, NTP or IARC.

Section 12. Ecological Information

Ecotoxicity Not available.

Section 13. Disposal Considerations

Waste Disposal The disposal of the product must be made in accordance with provincial and federal regulations. Discard empty container in trash.

Section 14. Transport Information

DOT Classification Not a DOT controlled material (United States).

Proper Shipping Name Not applicable.

DOT Identification Number Not applicable.

Packing Group Not applicable.

Maritime Transportation Not applicable.

Hazardous Substances
Reportable Quantity Not applicable.Special Provisions for
Transport Not applicable.

TDG Classification Not a TDG controlled material.

ADR Classification Not applicable.

IMDG Classification Not controlled under IMDG.

IATA Classification Not controlled under IATA.

Section 15. Regulatory Information

**Federal and State
Regulations**

SARA Title III, Section 313 Toxic Chemical Notification & Release Reporting:

1) DIETHYLENE GLYCOL MONOBUTYL ETHER

CAS #: 112-34-5

5 %

California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:

1) Not available.

Other Classifications

WHMIS (Canada) Not controlled under WHMIS (Canada).

Section 16. Other Information

HMIS (U.S.A.)

Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	a

**National Fire Protection
Association (U.S.A.)**

Health	1	0	0	Fire Hazard
				Reactivity
				Specific hazard

NFPA Aerosol Level

Not applicable.

Validated by Product Safety on 7/19/2001.

Printed 8/7/2001.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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MATERIAL SAFETY DATA SHEET

LYSOL(R*) BRAND DISINFECTANT SPRAY - ALL SCENTS

REV. DATE: 09/30/94

L & F PRODUCTS
225 SUMMIT AVENUE
MONTVALE, NJ 07645

TELEPHONE NUMBER: (201)573-5700 (24 HRS)

EMERGENCY CONTACT: CHEMTREC-FOR DOT EMERGENCIES ONLY

EMERGENCY PHONE NUMBER: (800)424-9300

-----SECTION #1 - IDENTIFICATION -----

PRODUCT: LYSOL(R*) BRAND DISINFECTANT SPRAY - ALL SCENTS

EPA REG. NO.: 777-53

SPECIAL HAZARDS: FLAMMABLE. CONTENTS UNDER PRESSURE.

HAZARD RATINGS:
NFPA
HEALTH: 1 SLIGHT
FIRE: LEVEL 1 AEROSOL
REACTIVITY: 0 NEGLIGIBLE

HMIS
HEALTH: 1 SLIGHT
FLAMMABILITY: 3 SERIOUS*
REACTIVITY: 0 MINIMAL

*THIS IS A LEVEL 1 AEROSOL. THIS RATING APPLIES TO THE PRODUCT CONCENTRATE AND NOT THE FINISHED, SEALED AEROSOL PRODUCT.

PRODUCT DESCRIPTION: AEROSOL DISINFECTANT		
FORMULA NO.	PRODUCT NO.	SCENT
Z2381	01-C0111-000	ORIGINAL
56-036	01-C0508-000	ORIGINAL
4Z1961	01-C0115-000	FRESH
73-004	01-C0505-000	FRESH
7Z1511	01-C0123-000	FRESH
8Z0531	01-C0131-000	LIGHT (I.C.)
3AB1122	01-C0134-000	LIGHT (I.C.)
Z047A-10	01-C0144-000	COUNTRY
76-054B	01-C0673-000	COUNTRY
AE3-090B	01-C0335-000	MOUNTAIN
75-013B	01-C0339-000	MOUNTAIN
75-018	01-C0736-000	BAYBERRY PINE

THIS PRODUCT IS A REGISTERED PESTICIDE. USE OF THIS PRODUCT IN A MANNER NOT CONSISTENT WITH THE LABEL INSTRUCTIONS IS A VIOLATION OF FEDERAL LAW.

-----SECTION #2 - HAZARDOUS CHEMICAL COMPONENTS -----

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COMPONENT: CARBON DIOXIDE (AS PROPELLANT)

CAS NUMBER: 124-38-9	PERCENT OF MIXTURE: 4.0
ACGIH TLV-STEL: 30,000 PPM	
ACGIH TLV-TWA: 5000 PPM	
OSHA PEL-TWA: 5,000 PPM	

COMPONENT: ETHANOL

CAS NUMBER: 64-17-5	PERCENT OF MIXTURE: 79.0
ACGIH TLV-TWA: 1000 PPM	
OSHA PEL-TWA: 1000 PPM	

COMPONENT: ORTHO-PHENYLPHENOL

CAS NUMBER: 90-43-7	PERCENT OF MIXTURE: .1
NO EXPOSURE LIMITS ESTABLISHED BY ACGIH OR OSHA	

-----SECTION #3 - PHYSICAL DATA -----

BOILING POINT: NOT APPLICABLE DEG C

VAPOR PRESSURE: 95 - 105 PSIG

VAPOR DENSITY (AIR=1): >1

SPECIFIC GRAVITY: 0.835 @ 25 DEG C (CONC)

SOLUBILITY (H2O): COMPLETE

PH: APPROX. 10 AT A CONCENTRATION OF: 50%

APPEARANCE:
AEROSOL CONTAINER

-----SECTION #4 - FIRE FIGHTING & EXPLOSION DATA -----

FLASH POINT: 70 DEG F TCC (CONCENTRATE)

LOWER EXPLOSIVE LIMIT (%): NOT DETERMINED

UPPER EXPLOSIVE LIMIT (%): NOT DETERMINED

FIRE AND EXPLOSION HAZARDS

FLAMMABLE. CONTENTS UNDER PRESSURE. DO NOT USE NEAR HEAT, SPARK OR FLAME. DO NOT PUNCTURE OR INCINERATE CONTAINER. EXPOSURE TO TEMPERATURES ABOVE 130 DEG F MAY CAUSE BURSTING.

EXTINGUISHING MEDIA

WATER SPRAY, FOAM, DRY CHEMICAL OR CARBON DIOXIDE. USE MEDIA SUITABLE FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

SPECIAL FIRE FIGHTING INSTRUCTIONS

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE EQUIPMENT APPROPRIATE FOR FIGHTING A TYPICAL CHEMICAL FIRE. MOVE CONTAINERS AWAY FROM FIRE IF POSSIBLE AND SAFE TO DO SO. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS. PROVIDE SHIELDING FOR VENTING, RUPTURING OR BURSTING CONTAINERS.

-----SECTION #5 - EXPOSURE EFFECTS AND FIRST AID -----

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ROUTE OF EXPOSURE - INHALATION:

NONE EXPECTED. SUSCEPTIBLE INDIVIDUALS MAY EXPERIENCE DIZZINESS, DROWSINESS, NAUSEA AND VOMITING IF EXPOSED TO EXTREMELY HIGH CONCENTRATIONS OF THE VAPORS.

FIRST AID - INHALATION:
IF REQUIRED, REMOVE TO FRESH AIR.

ROUTE OF EXPOSURE - SKIN:
NONE EXPECTED.

FIRST AID - SKIN:
RINSE WITH WATER.

ROUTE OF EXPOSURE - EYES:
AVOID CONTACT WITH EYES.

FIRST AID - EYES:
IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER, REMOVE ANY CONTACT LENSES AND CONTINUE TO FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

ROUTE OF EXPOSURE - INGESTION:
INGESTION IS VERY UNLIKELY THROUGH THE NORMAL ANTICIPATED USE OF THIS PRODUCT. INGESTION OF SMALL QUANTITIES IS NOT EXPECTED TO CAUSE ANY SIGNIFICANT ADVERSE EFFECTS. AVOID CONTACT WITH FOOD.

FIRST AID - INGESTION:
CONTACT A PHYSICIAN.

MISCELLANEOUS TOXICOLOGICAL INFORMATION:
CARCINOGENICITY: NTP: NO IARC: NO OSHA: NO

HEALTH CONDITIONS AGGRAVATED BY EXPOSURE:
NONE KNOWN

-----SECTION #6 - REACTIVITY & POLYMERIZATION -----

STABILITY: STABLE

CONDITIONS TO AVOID (STABILITY):
AVOID TEMPERATURES ABOVE 130 DEG F

INCOMPATIBLE MATERIALS:
STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING THERMAL DECOMPOSITION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

-----SECTION #7 - SPILL, LEAK, & DISPOSAL PROCEDURES -----

STEPS TO BE TAKEN IN THE EVENT OF SPILLS, LEAKS, OR RELEASE:
FOR LARGE SPILLS DUE TO RUPTURED CONTAINERS, ELIMINATE ALL SOURCES OF IGNITION AND VENTILATE THE AREA WITH EQUIPMENT RATED FOR USE IN FLAMMABLE

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ENVIRONMENTS. COLLECT LIQUID AND STORE IN METAL CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHODS:
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

CONTAINER DISPOSAL:
REPLACE CAP AND DISCARD IN TRASH. DO NOT PUNCTURE OR INCINERATE. DO NOT REUSE EMPTY CONTAINER.

OTHER ENVIRONMENTAL INFORMATION:
NONE OF THE INGREDIENTS IN THIS PRODUCT MEET THE REPORTING REQUIREMENTS OF THE SARA TITLE III, SECTION 313 LIST OF TOXIC CHEMICALS.

-----SECTION #8 - SPECIAL PROTECTIVE MEASURES -----

VENTILATION: NONE REQUIRED.

EYE PROTECTION: NONE REQUIRED.

SKIN PROTECTION: NONE REQUIRED.

RESPIRATORY PROTECTION: NONE REQUIRED.

-----SECTION #9 - SPECIAL PRECAUTIONS - STORAGE & HANDLING -----

STORAGE & HANDLING CONDITIONS:
STORE IN ORIGINAL CONTAINER IN AREAS INACCESSIBLE TO SMALL CHILDREN.
FLAMMABLE. CONTENTS UNDER PRESSURE. DO NOT USE NEAR FIRE, SPARKS OR FLAME.
EXPOSURE TO TEMPERATURES ABOVE 130 DEG F MAY CAUSE BURSTING.

-----SECTION #10 - SHIPPING INFORMATION -----

PROPER SHIPPING NAME: CONSUMER COMMODITY

HAZARD CLASS: ORM-D DOMESTIC COMMERCE - SURFACE ONLY

STATE REGULATED COMPONENTS

COMPONENT: CARBON DIOXIDE (AS PROPELLANT)
CAS NUMBER: 124-38-9 PERCENT OF MIXTURE: 4.0
STATE REGULATIONS: ILL MAS NJW PAW

COMPONENT: ETHANOL
CAS NUMBER: 64-17-5 PERCENT OF MIXTURE: 79.0
STATE REGULATIONS: ILL MAS NJS NJW PAW P65

COMPONENT: ORTHO-PHENYLPHENOL
CAS NUMBER: 90-43-7 PERCENT OF MIXTURE: .1
STATE REGULATIONS: NJE NJW

ILL - ILLINOIS TOXIC SUBSTANCE
MAS - MASSACHUSETTS HAZARDOUS SUBSTANCE
NJE - NEW JERSEY ENVIRONMENTAL HAZARDOUS SUBSTANCE
NJS - NEW JERSEY SPECIAL HEALTH HAZARDOUS SUBSTANCE
NJW - NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE
PAE - PENNSYLVANIA ENVIRONMENTAL HAZARDOUS SUBSTANCE

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PAS - PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCE
PAW - PENNSYLVANIA WORKPLACE HAZARDOUS SUBSTANCE
P65 - CALIFORNIA PROPOSITION 65

MATERIAL SAFETY DATA SHEET

102145

CC
310
311
313
314

MANUFACTURERS NAME: MOTSENBOCKER'S ADVANCED DEVELOPMENTS, INC (M.A.D., INC.)
ADDRESS: P.O. BOX 90947
CITY, STATE, ZIP: SAN DIEGO, CA 92169
PHONE: (619) 581-0222
FAX: (619) 483-6965
24 HOUR EMERGENCY NUMBER: CHEMTREC: (800) 424-9300
CODE: MLO2MSDS

FCR

* ATTN: SAFETY SUPERVISOR

DEC 19 1994

DATE: 06/24/93
SUPERSEDES: 07/28/92
PAGE: 1

I. PRODUCT IDENTIFICATION

PRODUCT NAME: MOTSENBOCKER'S LIFT OFF (R) #2 ADHESIVES, GREASE, OILY STAINS TAPE/STAIN REMOVER
CODE NO: 407-01
UPC CODE: (77448)- 52586
408-01 11291
PRODUCT TYPE: PETROLEUM BASED CLEANER

II. COMPOSITION

INGREDIENTS	CAS. #	%WT.	ACGIH TLV	OSHA STEL	OSHA PEL
TRADE SECRET	64742-88-7		5 MG/M3	10 MG/M3	5 MG/M3
U.S. PATENT #4306989 &	PROPRIETARY		NONE	NONE	NONE
FOREIGN PATENT #1149190	00077-55-6		350PPM	450PPM	350PPM
(REF. CFR 29 SEC. 1910.1200)	01330-20-7		100PPM	150PPM	1000PPM
	PROPRIETARY		NONE	NONE	NONE
	08042-47-5		5 MG/M3	NONE	5 MG/M3

THESE INGREDIENTS ARE SUBJECT TO SARA TITLE III SECTION 313 REPORTING FOR SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND CFR PART 372.

III. CHEMICAL AND PHYSICAL PROPERTIES

VAPOR PRESSURE : N/A
VAPOR DENSITY : HEAVIER THAN AIR
SOLUBILITY IN WATER : PARTIAL
APPEARANCE : COLORLESS LIQUID
SPECIFIC GRAVITY : 0.95
BOILING POINT : 160-360 DEG. F
PH : DOES NOT APPLY
ODOR : PUNGENT

IV. TOXICITY AND HEALTH HAZARD DATA

TOXICITY: SKIN IRRITANT

~~UPPER RESPIRATORY IRRITANT~~

CARCINOGENICITY: NTP :N

IARC MONOGRAPHS :N

OSHA REGULATED :N

HMS HAZARD COMMUNICATION CODES: HAZARD (0) HEALTH (2) FIRE (1) REACTIVITY (0)

TLV: SEE SECTION II-COMPOSITION

PRIMARY ROUTES OF ENTRY: SKIN, INGESTION, INHALATION

EXISTING CONDITIONS AGGRAVATED BY EXPOSURE: NONE KNOWN

SYMPTOMS OF OVEREXPOSURE:

ACUTE: DIZZINESS, INCOORDINATION, INCREASED REACTION TIME, UNCONSCIOUSNESS, AND DEATH.

CHRONIC: SEE TARGET ORGANS AND OTHER HEALTH EFFECTS IN SECTION II FOR CHRONIC OVEREXPOSURE SYMPTOMS.

EMERGENCY TREATMENT PROCEDURES:

INGESTION: DO NOT INDUCE VOMITING. CALL PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST, CALL PHYSICIAN.

SKIN CONTACT: WASH THOROUGHLY WITH LARGE QUANTITIES OF SOAP AND WATER.

EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION.

PERSONAL PROTECTION:

EYES: WEAR SAFETY GLASSES OR GOGGLES.

SKIN: WEAR RUBBER OR PLASTIC GLOVES.

VENTILATION: SUFFICIENT TO MAINTAIN VAPOR CONCENTRATION BELOW TLV.

V. FLAMMABILITY AND EXPLOSIVE PROPERTIES

FLASH POINT: 160 DEG. F

METHOD: PENSKEY MARTEN CLOSED CUP

EXPLOSIVE LIMITS (% BY VOLUME IN AIR)

LOWER: 1% UPPER: 11%

RECOMMENDED EXTINGUISHING AGENTS: CO2, DRY CHEMICAL, FOAM

HAZARDOUS PRODUCTS FORMED BY FIRE OR THERMAL DECOMPOSITION:

CO, CO2, HYDROGEN CHLORIDE, PHOSGENE GAS

UNUSUAL FIRE OR EXPLOSION HAZARDS:

WATER MAY BE INEFFECTIVE

COMPRESSED GASES:

NAME: DOES NOT APPLY

PRESSURE AT ROOM TEMPERATURE: DOES NOT APPLY

VI. REACTIVITY DATA

STABILITY:

IXI STABLE

II UNSTABLE

HAZARDOUS POLYMERIZATION:

II MAY OCCUR

IXI WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS (NON-THERMAL) : NONE KNOWN

INCOMPATIBILITY: STRONG CAUSTICS, OXIDIZERS, CHEMICALLY ACTIVE METALS, & OPEN FLAMES.

VII. SPILL OR LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK:

CONTAIN SPILL USING INERT ABSORBENT. WEAR THE PROPER PROTECTIVE CLOTHING. REMOVE ALL IGNITION SOURCES. AVOID CONTACT WITH OXIDIZERS. ABSORB SPILL USING INERT ABSORBENT. DO NOT ALLOW MATERIAL TO ENTER WATER WAYS.

RECOMMENDED METHODS OF DISPOSAL: INCINERATE ACCORDING TO FEDERAL, STATE AND LOCAL REGULATIONS.

CERCLA REPORTABLE QTY (IN LBS): N/A

RCRA HAZARDOUS WASTE NO.: N/A

VIII. STORAGE AND HANDLING PROCEDURES

STORAGE: STORE IN COOL, DRY PLACE

HANDLING: KEEP AWAY FROM CHILDREN, AVOID BREATHING VAPORS. WEAR A NOISE APPROVED RESPIRATOR FOR EXTENDED USE OR IN CONFINED AREAS. WEAR PROTECTIVE GLOVES.

IX. SHIPPING REGULATIONS

DOT TYPE OR CLASS: ORM-D

PROPER SHIPPING NAME: CONSUMER COMMODITY

IATA TYPE OR CLASS: NOT AVAILABLE

PROPER SHIPPING NAME: NOT AVAILABLE

IMCO TYPE OR CLASS: NOT AVAILABLE

PROPER SHIPPING NAME: NOT AVAILABLE

UN #: N/A

PAGE: N/A



Commercial Products Group
CPG TN 6
2 Procter & Gamble Plaza
Cincinnati, OH 45202

HMIS®
Health 1
Flammability 0
Reactivity 0

MATERIAL SAFETY DATA SHEET

Issue Date: 2/99

SECTION I

Emergency Telephone Number: Procter & Gamble Operator 1-513-983-1100
Identity: **MR. CLEAN All-Purpose Cleaner**
Ingredients/Chemical Name: Cleaning agents (nonionic and anionic surfactants), quality control agents, perfume, colorant and water.
Other: N.A.

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Ingredients as defined by OSHA, 29 CFR 1910. 1200.

Chemical Name	Common Name	CAS No.	ACGIH TLV	OSHA PEL	Other Limits Recommended
alcohol ethoxylates	nonionic surfactant		see Section V - Health and Safety Data		

DOT Classification: Not regulated

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling point: N.A.	Specific Gravity (H₂O=1): 1.048 g/cc
Vapor Pressure (mm Hg): N.A.	Percent Volatile by Volume (%): N.A.
Vapor Density (Air=1): N.A.	Evaporation Rate (nBuOAc=1): N.A.
Solubility in Water: Complete	Appearance and Odor: Clear yellow liquid with lemon fragrance
pH: 9.0 10.0	

SECTION IV - FLAMMABILITY AND REACTIVITY

Flash Point (Method Used): over 200°F (cc) **Explosive Limits:** LEL: N.A. UEL: N.A.
Extinguishing Media: Use CO₂, water, dry chemical or "alcohol" foam.
Special Fire Fighting Procedures: Use water to keep fire exposed containers cool.
Unusual Fire Hazards: None Known
Stability *Unstable:* *Conditions to Avoid:* None Known
 Stable: X
Incompatibility (Materials to avoid): None Known
Hazardous Decomposition/By Products: None Known
Hazardous *May Occur:* *Conditions to Avoid:* None
Polymerization *Will Not Occur:* X

SECTION V - HEALTH AND SAFETY DATA

Route(s) of Entry: Skin contact, eye contact, ingestion and inhalation.

Health Hazards (Acute and Chronic): Mild skin and eye irritant. May be harmful if swallowed.

Signs and Symptoms of Exposure: Instillation into the eyes may result in transient superficial effects similar to those produced by mild toilet soaps and detergents. Ingestion may result in transient nervous system effects (ataxia and muscle weakness) and/or gastrointestinal irritation with nausea, vomiting or diarrhea. This product contains alcohol ethoxylates. Large ingestions (>2ml/kg) may also cause symptoms of alcohol-like intoxications, incoordination, drowsiness, inarticulateness or ataxia. Alcohol ethoxylates may contribute to Central Nervous System symptoms.

Medical Conditions Generally Aggravated by Exposure: Use on irritated or extremely dry skin may aggravate the existing conditions.

Emergency and First Aid Procedures: *Eye Contact:* Flush thoroughly with water. *Ingestion:* Dilute with fluids and call a physician. *Skin Irritation:* Rinse exposed area and discontinue use. Remove contaminated clothing.

Other: N.A.

SECTION VI - PRECAUTIONS FOR SAFE HANDLING AND USE

Precautions to be Taken in Handling and Storing: Store in a cool, dry, well ventilated area.

Other precautions: None required

Steps to Be Taken in Case Material is Released or Spilled: Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak.

Waste Disposal Method: Do not landfill. Small (household) quantities may be disposed of via sewer. Incineration is preferred where permitted by federal, state and local regulations. Disposal is to be performed in compliance with all regulations.

SECTION VII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type): None required.

Ventilation *Local Exhaust:* None required *Special:* None
 Mechanical (General): Acceptable *Other:* None

Eye Protection: None required with normal use. If splash is possible use goggles. **Protective Gloves:** None required with normal use.

Other Protective Equipment: None required; in industrial setting eye wash fountain desirable.

*N.A. - Not Applicable

*N.K. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

Doc. No: QD015-05

10/03/01 Rev. 1
Office Depot Duster

Approved by: Frank L.

MATERIAL SAFETY DATA SHEET

OFFICE DEPOT CLEANING DUSTER

****SECTION I** CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: OFFICE DEPOT CLEANING DUSTER
Product Number: 0811563
Chemical Name: 1,1,1,2-Tetrafluoroethane
Manufacturer: QPL, INC.
Address: 800 S. ACADIA ROAD
 THIBODAUX, LA 70301
Telephone Number: (985) 449-0660
Web Site: www.qplchem.com
Emergency numbers: Chemtree (800) 424-9300
 Control Center (Louisiana) (800) 256-9822
Date Prepared: 8/00 Revised 01/03

****SECTION II** HAZARDOUS COMPONENTS**

Hazardous Components:	Case No.	ACGIH	TLV	PEL (OSHA)
1,1,1,2-Tetrafluoroethane	811-97-2	Not Est.		Not Est.
<u>Notes:</u>				
(1) NPCA-HMIS Rating:	Health:	1		
	Flammability:	0		
	Reactivity:	0		
	Personal Protection:	X (See Section VIII)		

This Chemical is not listed as a Carcinogen or potential Carcinogen with: NTP Status, IARC Status or OSHA list.

****SECTION III** PHYSICAL DATA**

Boiling Point: -15.7°F @ 736 mm Hg
Solubility in water: Slight
Vapor pressure: 96 psia @ 70°F
Volatiles (% by weight): 100%
Vapor Density (Air = 1): 3
Density: 1.21 g/cc @ 77°F

Description: A colorless, clear liquefied gas with a slight ethereal odor.

****SECTION IV** FIRE & EXPLOSION HAZARDS**

Flash Point: None Method Used: TOC
Flammable Limits: NOT APPLICABLE
Extinguishing Media: As appropriate for combustibles in area
Special fire fighting procedures: Self-contained breathing apparatus. Positive pressure type.
Unusual fire and explosion hazards: None (material itself is not flammable)

****SECTION V** REACTIVITY DATA**

Stability: Yes
Incompatibility (Materials to Avoid): Strong oxidizers and high temperatures above 130°F. Strong acids or bases. Alkaline earth materials.
Hazardous Polymerization: Will not occur.
Conditions to Avoid: High temperatures and sources of ignition such as sparks.
Hazardous Decomposition Products: Source – High Heat, forming hydrofluoric acid and possible carbonyl fluorine.

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Office Depot Duster

Approved by: Frank L.

****SECTION VI** HEALTH HAZARD DATA**Primary Routes of Entry; Effects of Overexposure:Eye: Acute – irritation and redness, tearing and blurred vision.Inhalation: Acute – excessive inhalation may cause temporary alteration of the heart's electrical activity with irregular pulse, palpitations or inadequate circulation. Intentional misuse can be fatal.Skin: Prolong and excessive skin contact may cause frostbite.Ingestion: Not considered a potential route of entry. (Do not administer adrenaline following exposure.)**EMERGENCY / FIRST AID PROCEDURES:**If in Eyes: Flush with water for 15 minutes. Seek medical help if irritation persists.If on Skin: Wash with soap and water. If frostbit treat by warming affected area.If Swallowed: Not considered a potential route of entry.If inhaled: Remove to fresh air. Administer artificial respiration, if needed. If breathing is difficult give oxygen. Call a physician.Note to Physician: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be considered only as a last resort in a life threatening emergencies.****SECTION VII** PRECAUTIONS FOR SAFE HANDLING AND USE**If Material is released or spilled: Ventilate area – especially low areas where heavy vapors may collect. Protect from open flames.Waste Disposal Method: ****DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS****Handling/Storing Precautions: Store in a dry area, away from heat sources or high ambient temperature. OK to store at freezing temperatures.Other Precautions: Keep away from children. For professional or industrial use only.****SECTION VIII** SPECIAL PROTECTION DATA**Respiratory: No respiratory protection is needed under normal outdoor or well-ventilated working conditions.Ventilation: Provide normal ventilation for standard manufacturing procedures.Eyes: Splash proof safety glasses/goggles are recommended. See safety consultant.Gloves: Nitrile rubber or neoprene is recommended for prolonged contact.****SECTION IX** SPECIAL PRECAUTIONS**Aquatic Toxicity: Not ApplicableShipping Information:

Proper Shipping Name:	1,1,1,2-tetrafluoroethane
Hazard Class:	Non-flammable gas, 2.2
UN#:	3159
DOT/IATA Label:	Non-flammable Gas

Air Freight Method:**DOMESTIC (DOT) & INTERNATIONAL AIR (IATA)**

Passenger - Package max. Wt.	75kg
Cargo - Package max. Wt.	150kg

NA = not applicable	ND = not determined	< = less than
> = Greater than	UNK = unknown	

NOTE: The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

PURELL® Hand Sanitizer

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

SECTION 1. IDENTIFICATION

Product name : PURELL® Hand Sanitizer

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500
Akron OH 44311

Telephone : 1 (330) 255-6000

Emergency telephone : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use

Recommended use : Hand Sanitizer

Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3

Eye irritation : Category 2A

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.

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Precautionary Statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P233 Keep container tightly closed.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
Storage:
P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.
Get medical attention if symptoms occur.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.

**PURELL® Hand Sanitizer**

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Get medical attention.

If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

Specific hazards during fire fighting : Do not use a solid water stream as it may scatter and spread fire.
Flash back possible over considerable distance.
Vapors may form explosive mixtures with air.
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions : Discharge into the environment must be avoided.

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Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling : Do not breathe vapors or spray mist.
Do not swallow.
Do not get in eyes.
Avoid prolonged or repeated contact with skin.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:
Strong oxidizing agents

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Organic peroxides
 Flammable solids
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures
 Substances and mixtures which in contact with water emit flammable gases
 Explosives
 Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentratio n	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Engineering measures : Minimize workplace exposure concentrations.
 Use only in an area equipped with explosion proof exhaust ventilation.
 Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and

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use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

Material : Impervious gloves

Material : Flame retardant gloves

Remarks

: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection

: Wear the following personal protective equipment:
Safety goggles

Skin and body protection

: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures

: Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, Colorless to pale yellow
Odor	: citrus
Odor Threshold	: No data available
pH	: 6.0 - 9.2
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available

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Flash point	: 25 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Density	: 0.89 g/cm3
Solubility(ies) Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: No data available
Decomposition temperature	: The substance or mixture is not classified self-reactive.
Viscosity Viscosity, kinematic	: 1,000 - 35,000 mm2/s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

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SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Ingredients:**Ethanol:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:**Ethanol:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Propan-2-ol:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:

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Ethanol:

Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405

Propan-2-ol:

Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Ingredients:**Ethanol:**

Test Type: Local lymph node assay (LLNA)
Routes of exposure: Skin contact
Species: Mouse
Result: negative

Propan-2-ol:

Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:**Ethanol:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Ingestion
Result: negative

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

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Carcinogenicity

Not classified based on available information.

Ingredients:**Propan-2-ol:**

Species: Rat

Application Route: inhalation (vapor)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Ingredients:**Ethanol:**

Effects on fertility

: Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Propan-2-ol:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on fetal development

: Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT-single exposure

Not classified based on available information.

Ingredients:**Propan-2-ol:**

Assessment: May cause drowsiness or dizziness.

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STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity**Ingredients:****Ethanol:**

Species: Rat
NOAEL: 2,400 mg/kg
Application Route: Ingestion
Exposure time: 2 y

Propan-2-ol:

Species: Rat
NOAEL: 5000 ppm
Application Route: inhalation (vapor)
Exposure time: 104 w
Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Ingredients:****Ethanol:**

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h

Propan-2-ol:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to algae	: ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l

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Exposure time: 8 d

Toxicity to bacteria : EC50 (*Pseudomonas putida*): > 1,050 mg/l
Exposure time: 16 h

Persistence and degradability**Ingredients:****Ethanol:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 20 d

Propan-2-ol:

Biodegradability : Result: rapidly degradable

Bioaccumulative potential**Ingredients:****Ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0.35

Propan-2-ol:

Partition coefficient: n-octanol/water : log Pow: 0.05

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**International Regulation****UNRTDG**

UN number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

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(Ethanol, Propan-2-ol)

Class : 3

Packing group : III

Labels : 3

IATA-DGR

UN/ID No. : UN 1987

Proper shipping name : Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

Class : 3

Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo aircraft) : 366

Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

Class : 3

Packing group : III

Labels : 3

EmS Code : F-E, S-D

Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation**49 CFR**

UN/ID/NA number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

Class : 3

Packing group : III

Labels : FLAMMABLE LIQUID

ERG Code : 127

Marine pollutant : no

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

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Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Propan-2-ol	67-63-0	3.013 %
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US State Regulations

Pennsylvania Right To Know

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %

New Jersey Right To Know

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

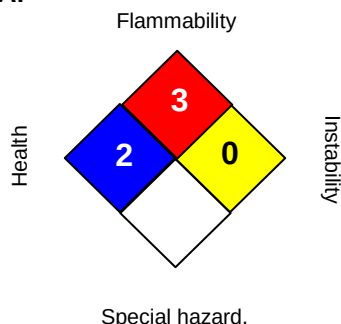
AICS : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

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SECTION 16. OTHER INFORMATION**Further information****NFPA:****HMIS III:**

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	: 8-hour time weighted average
Sources of key data used to compile the Material Safety Data Sheet	: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

Revision Date : 03/19/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



RAID® ANT & ROACH KILLER 17 (OUTDOOR FRESH®)

Version 1.0

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000017507

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : RAID® ANT & ROACH KILLER 17 (OUTDOOR FRESH®)

Recommended use : Insecticide

Manufacturer, importer, supplier : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone : +18005585252
Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 2	Flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

Labelling

Hazard symbols

Flame

Gas cylinder

Signal word

Warning

Hazard statements

Flammable aerosol.

Contains gas under pressure; may explode if heated.

Precautionary statements

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Protect from sunlight. Store in a well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

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Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	10.00 - 30.00
Propane	74-98-6	5.00 - 10.00
Butane	106-97-8	1.00 - 5.00
Isobutane	75-28-5	1.00 - 5.00
Isopropanol	67-63-0	1.00 - 5.00
Imiprothrin	72963-72-5	0.10 - 1.00
Cypermethrin	52315-07-8	0.0001 - 0.10

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

Eye contact : No special requirements

Skin contact : No special requirements

Inhalation : No special requirements.

Ingestion : No special requirements

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards during firefighting : Aerosol Product - Containers may rocket or explode in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses.

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Further information : Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Remove all sources of ignition.
Wear personal protective equipment.
Wash thoroughly after handling.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Use appropriate containment to avoid environmental contamination.
Outside of normal use, avoid release to the environment.

Methods and materials for containment and cleaning up : If damage occurs to aerosol can:
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Use only non-sparking equipment.
Dike large spills.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing.
Do not enter places where used or stored until adequately ventilated.
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Pressurized container.
Do not pierce or burn, even after use.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
Do not spray on an open flame or other ignition source.

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Storage

Requirements for storage areas and containers : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Keep away from food, drink and animal feedingsuffs.
Keep in a dry, cool and well-ventilated place.
Protect from sunlight.
Store in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Butane	106-97-8	-	1,000 ppm	-	ACGIH STEL
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Isopropanol	67-63-0	980 mg/m3	400 ppm	-	OSHA TWA
Isopropanol	67-63-0	-	400 ppm	-	ACGIH STEL
Isopropanol	67-63-0	-	200 ppm	-	ACGIH TWA

Personal protective equipment

Respiratory protection : Do not spray in enclosed areas.

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Hand protection	:	No special requirements.
Eye protection	:	No special requirements.
Skin and body protection	:	No special requirements.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	aerosol
Color	:	clear
Odor	:	pleasant
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	-7 °C 19.4 °F
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper/lower flammability or explosive limits	:	No data available

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Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: 0.877 g/cm ³ at 21.11 °C
Solubility(ies)	: partly soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	:
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: No data available
Volatile Organic Compounds Total VOC (wt. %)*	: 12.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations
Other information	: None identified :

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	: Stable under recommended storage conditions.
Conditions to avoid	: Heat, flames and sparks.

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Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Emergency Overview : Warning

Acute oral toxicity : NA GHS LD50
estimated
> 5,000 mg/kg

Acute inhalation toxicity : NA GHS LC50 (dust and mist)
estimated
> 5.1 mg/l

Acute dermal toxicity : NA GHS LD50
estimated
> 5,000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	-
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-

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Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

Aggravated Medical Condition : None known.

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

Toxicity to fish

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50	Fish	> 1,028 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Butane	No data available			
Isobutane	LC50	Fish	27.98 mg/l	96 h
Isopropanol	LC50	Pimephales promelas (fathead minnow)	9,640 mg/l	96 h
Imiprothrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.038 mg/l	96 h

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Cypermethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.00283 mg/l	96 h
	NOEC	Pimephales promelas (fathead minnow)	0.00001 mg/l	28 d

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50 No data available		> 3,193 mg/l	48 h
Propane	LC50	Daphnid	14.22 mg/l	48 h
Butane	No data available			
Isobutane	LC50	Daphnid	16.33 mg/l	48 h
Isopropanol	EC50	Daphnia magna (Water flea)	13,299 mg/l	48 h
Imiprothrin	EC50	Daphnia magna (Water flea)	0.051 mg/l	48 h
Cypermethrin	EC50	Daphnia magna (Water flea)	0.00471 mg/l	48 h

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	NOEC	Daphnia magna (Water flea)	0.00004 mg/l	21 d
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Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50	Skeletonema costatum	3,198 mg/l	72 h
Propane	No data available			
Butane	No data available			
Isobutane	EC50	Green algae	8.57 mg/l	96 h
Isopropanol	EC50	Desmodesmus subspicatus (green algae)	> 1,000 mg/l	72 h
Imiprothrin	NOEC	Pseudokirchneriella subcapitata (green algae)	1.3 mg/l	72 h
Cypermethrin	ErC50 No data available		> 0.0033 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available		
Propane	70 %	< 10 d	Readily biodegradable
Butane	100 %	385.5 h	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable
Isopropanol	53 %	5 d	Readily biodegradable
Imiprothrin	58 %	28 d	Not readily biodegradable.

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Cypermethrin	0.6 - 1.4 %	33 d	Not readily biodegradable.

Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available	No data available
Propane	No data available	2.36
Butane	No data available	2.89
Isobutane	1.57 - 1.97	2.8
Isopropanol	0.96 estimated	0.05
Imiprothrin	58.2 Calculated	2.9
Cypermethrin	373.4 Measured	5.3 - 5.6

Mobility

Component	End point	Value
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available	-
Propane	No data available	
Butane	No data available	
Isobutane	No data available	
Isopropanol	No data available	
Imiprothrin	Koc	268
Cypermethrin	Koc	80653 - 574360

PBT and vPvB assessment

Component	Results
Propane	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria

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Isopropanol	Not fulfilling PBT and vPvB criteria
Imiprothrin	Not fulfilling PBT and vPvB criteria
Cypermethrin	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:

For disposal information, please read and follow Disposal instructions on the pesticide label.

Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper shipping name	AEROSOLS, Flammable, 2.1	AEROSOLS, Flammable, 2.1	AEROSOLS, Flammable, 2.1
Transport hazard class(es)	2.1	2	2.1
Packing group	-	-	-
Environmental hazards	-	-	-
Special precautions for user	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.

15. REGULATORY INFORMATION

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FIFRA Labeling

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Following is the hazard information as required on the pesticide label:

CAUTION:

Contents under pressure.

Flammable.

Exposure to temperatures above 130° F may cause bursting.

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Registration # / Agency
4822-447/US/EPA

16. OTHER INFORMATION

HMIS Ratings

Health	2
Flammability	4
Reactivity	0

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NEPA Ratings

Health	2
Fire	4
Reactivity	0
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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ReNu MultiPlus Multi-Purpose Solution

MATERIAL SAFETY DATA SHEET

Effective Date: 1/22/09

Supersedes: 11/11/05

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Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT:

Product Name: ReNu MultiPlus Multi-Purpose Solution
Product Description: A sterile buffered, isotonic, aqueous solution
Product Code(s): 623122, 623118, 629595
Intended Use: Daily cleaning, disinfection and storage of soft (hydrophilic) contact lenses

COMPANY IDENTIFICATION:

Bausch & Lomb, Incorporated
1400 N. Goodman Street
Rochester, New York 14609

For Information: 1-800-553-5340

EMERGENCY TELEPHONE NUMBER:

24-Hour Emergency: 1-800-535-5053

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

ReNu MultiPlus Multi-Purpose Solution is a clear, odorless liquid. This product is intended for use in cleaning soft (hydrophilic) contact lenses. Follow the instructions accompanying the product carefully. If you are allergic to any ingredient in this product, DO NOT USE. Keep out of reach of children.

PRECAUTIONS:

This product is recommended for the cleaning care regimen of soft (hydrophilic) contact lenses per label instructions. If any discomfort develops, immediately discontinue use of this product. If discomfort persists, contact your eye care professional. Use in accordance with product literature.

If you are allergic to any ingredient in this product, **DO NOT USE**.

Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

EYE:

Non-irritating to the eyes when used as directed.

SKIN:

Non-irritating to skin or mucous membranes when used as directed.

ReNu MultiPlus Multi-Purpose Solution

MATERIAL SAFETY DATA SHEET

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Section 2: HAZARDS IDENTIFICATION (cont.)

INGESTION:

Small amounts (a tablespoonful) swallowed are not likely to cause injury; swallowing amounts larger than that may cause gastrointestinal irritation.

INHALATION:

No hazard when used as directed.

CHRONIC HEALTH EFFECTS

No known chronic hazards.

CARCINOGENICITY:

NTP: No ingredients listed.

IARC: No ingredients listed.

OSHA: No ingredients listed.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	CHEMICAL IDENTITY	% W/V
10043-35-3	Boric Acid	Proprietary
1303-96-4	Sodium Borate	Proprietary
6381-92-6	Edetate Disodium	Proprietary
3794-83-0	Hydroxyalkyl Phosphonate	Proprietary
11111-34-5	Poloxamine	Proprietary
7647-14-5	Sodium Chloride	Proprietary
27083-27-8	Polyaminopropyl Biguanide	0.0001
7732-18-5	Purified Water	Balance

pH balanced with Sodium Hydroxide and/or Hydrochloric Acid.

Section 4: FIRST AID MEASURES

EYES:

If discomfort or irritation develops, immediately discontinue product use and contact your eye care professional.

SKIN:

No specific treatment is necessary since this material is not likely to be hazardous by contact with the skin or mucous membranes.

ReNu MultiPlus Multi-Purpose Solution

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Section 4: FIRST AID MEASURES (cont.)

INGESTION:

No specific treatment is necessary since this material is not likely to be hazardous by ingestion. If large quantities are accidentally ingested (greater than a tablespoon), get medical attention immediately.

INHALATION:

No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of mist, remove to fresh air and get medical attention if cough or other symptoms develop.

Section 5: FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point: Non-Combustible

Method: NA

EXTINGUISHING MEDIA:

Water spray, carbon dioxide, dry chemical powder or appropriate foam for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS:

None identified.

SPECIAL FIRE FIGHTING INSTRUCTIONS:

As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

General Information:

Contain spill and absorb with a suitable inert material, then place in a chemical waste container. Dispose of in accordance with Section 13.

Section 7: HANDLING AND STORAGE

HANDLING:

No special handling is required. Use in accordance with product literature.

STORAGE:

Store at room temperature. Use before the expiration date marked on the carton and bottle.

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Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CAS #	COMPONENT NAME	OCCUPATIONAL EXPOSURE LIMITS / GUIDELINES										UNITS
		OSHA PEL		ACGIH TLV		NIOSH REL		IRELAND		HSE		
		TWA	/STEL	TWA	/STEL	TWA	/STEL	TWA	/STEL	TWA	/STEL	
10043-35-3	Boric Acid	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	N/A
1303-96-4	Sodium Borate	NE	NE	2	6	5	NE	5	NE	5	NE	MG/M3
6381-92-6	Edetate Disodium	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
3794-83-0	Hydroxyalkyl Phosphonate	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
11111-34-5	Poloxamine	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
7647-14-5	Sodium Chloride	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NA
27083-27-8	Polyaminopropyl Biguanide	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	N/A
7732-18-5	Purified Water	NA		NA		NA		NA		NA		NA

N/E: Not Established OSHA: Occupational Safety & Health Administration

N/A: Not Applicable PPM: Parts Per Million

ACGIH: American Conference of Governmental Industrial Hygienists

NIOSH: National Institute for Occupational Safety & Health

TWA: 8-Hour Time-Weighted Average

STEL: Short-Term Exposure Limit

C: Ceiling Limit

REL: Recommended Exposure Limit

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS:

Use with good ventilation. No special controls required under conditions of intended use.

RESPIRATORY PROTECTION:

No special controls or personal protection required under conditions of intended use.

EYE PROTECTION:

No special controls or personal protection required under conditions of intended use.

SKIN PROTECTION:

No special controls or personal protection required under conditions of intended use.

ADDITIONAL PROTECTIVE CLOTHING & EQUIPMENT:

NA

ReNu MultiPlus Multi-Purpose Solution

MATERIAL SAFETY DATA SHEET

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Colorless
Odor:	No Odor
Odor Threshold:	Not determined
pH-Value:	6.8-7.6
Melting Point:	Not applicable
Freezing Point:	Not determined
Initial Boiling Point:	Not determined
Flash Point:	Not applicable
Evaporation Rate:	Not determined
Flammability (solid, gas):	Not applicable
Explosion Limits:	Not applicable
Vapor Pressure:	Not determined
Vapor Density:	Not determined
Specific Gravity (H ₂ O=1):	Not determined
Solubility:	Soluble in water
Partition Coefficient:	Not applicable
Auto-Ignition Temperature:	Not applicable
Decomposition Temperature:	Not determined
Viscosity:	Not determined

Section 10: STABILITY AND REACTIVITY

GENERAL:

Stable under normal conditions.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

None.

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION:

None identified.

ReNu MultiPlus Multi-Purpose Solution

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Section 11: TOXICOLOGICAL INFORMATION

RTECS No.: ED4550000

Boric Acid

Toxicity Data: ORL-RAT LD50: 2660 MG/KG

RTECS No.: VZ22750000

Sodium Borate

Toxicity Data: ORL-RAT LD50: 2660 MG/KG

RTECS No.: Ah4410000

Edetate Disodium

Toxicity Data: ORL-RAT No LD50 listed

RTECS No.: VZ4725000

Sodium Chloride

Toxicity Data: ORL-RAT LDLo: 3 Mg/KG

RTECS No.: JL6475000

Hydroxyalkyl Phosphonate

Toxicity Data: ORL-RAT LDLo: 990 Mg/KG

NOTE: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

(*) Toxicological data supplied by the manufacturer.

Section 12: ECOLOGICAL INFORMATION

No data available on the environmental impact of this product.

Section 13: DISPOSAL CONSIDERATIONS

All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

ReNu MultiPlus Multi-Purpose Solution

MATERIAL SAFETY DATA SHEET

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Section 14: TRANSPORT INFORMATION

	US DOT	IATA	IMO	RID/ADR	Canadian DG
Shipping Name:	Not Regulated	Not Regulated	No Information Available	No Information Available	No Information Available
Hazard Class:	NA	NA			
UN Number:	NA	NA			
Package Group:	NA	NA			

There are no unreasonable risks (health, safety, or property), that this product would pose when transported in commerce. Hazard class definitions (49 CFR, Part 173) are not applicable to this product.

Section 15: REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200):

ReNu MultiPlus Multi-Purpose Solution is considered non-hazardous under the Occupational Safety & Health Administration Hazard Communication Standard.

TOXIC SUBSTANCE CONTROL ACT (TSCA):

CAS# 27083-27-8 is listed on the TSCA Inventory.
CAS# 10043-35-3 is listed on the TSCA Inventory.
CAS# 1303-96-4 is listed on the TSCA Inventory.
CAS# 6381-92-6 is listed on the TSCA Inventory.
CAS# 7647-14-5 is listed on the TSCA Inventory.
CAS# 3794-83-0 is listed on the TSCA Inventory

SARA TITLE III (Superfund Amendments and Reauthorization Act):

SECTION 302 (Extremely Hazardous Substances): No Components Listed
SECTION 311, 312 (Hazard Categories): NA
SECTION 313 (Toxic Chemicals): No Components Listed

CALIFORNIA PROPOSITION 65:

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels that would require a warning under the statute.

Section 16: OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither Bausch & Lomb Incorporated nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. NO WARRANTY, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE IS MADE. In no event shall Bausch & Lomb Incorporated or any of its subsidiaries be liable for any special, incidental or consequential damages.

Product Name	Shachihata STAMP PAD HGN-1,2,3,4 (All colors) Shachihata STAMP PAD INK SGN-40,SGN-250 (All colors) Shachihata STAMP PAD (ECOS) HG-1EC,HG-2EC,HG-3EC,HG-4 (All colors) Shachihata STAMP PAD INK SG-40,SG-250 (All colors) Shachihata STAMP PAD (2 Colours) HGW-3EC(Red/Black)(Red/Blue)
General Use	STAMP PAD INK
MSDS Number	ES1104A-0101

Company Name	Shachihata Inc.
Address	4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan
Telephone Number	++ 81 52 521 3600
Fax Number	++ 81 52 521 3899

Chemical or Common Name(s)	wt. %		CAS(TSCA) Number	EINECS Number
	Black	Others		
Carbon black	5~15	—	1333-86-4	215-609-9

No data available

Treatment may vary with condition of victim and specifics of incident.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flammable

EXTINGUISHING MEDIA

Dry chemical powder, foam or carbon dioxide.

FIRE FIGHTING INSTRUCTIONS

Wear full fire-fighting turn-out gear and respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL Wipe off with dry cloth.

WATER SPILL Contain spilled liquid with sand or earth.
Do not use combustible materials,such as sawdust.7. HANDLING AND STORAGEHANDLING : Use only in the well-ventilated areas.
Avoid contact with skin or eyes , or clothing.
Avoid inhalation and ingestion.
Avoid high temp. and fire.
Wash thoroughly after handling.STORAGE : Store in a cool, dry, well-ventilated location.
Keep away from heat, sunlight.
Keep away from children.8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

OSHA PEL (1994)			
[Carbon black]	TWA	3.5 mg/m ³	
ACGIH TLV (2003)			
[Carbon black]	TWA	3.5 mg/m ³	
EN LIMIT (2000/39/EN)			
Not established			

EXPOSURE CONTROLS

Occupational Exposure Controls

Engineering Controls

Use exhaust ventilation to keep airborne concentration below exposure limits.

Personal Protection

Respiratory Protection

Use with local exhaust ventilation, when in long use.

Hand Protection

Not required, but wear safety gloves, if necessary.

Eye Protection

Not required, but wear safety glasses, if necessary.

Skin Protection

To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

Environmental Exposure Controls

Not established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	Liquid
Odor	minor oil odor
pH	No data available
Boiling Point / Boiling Range	No data available
Flash Point	150 °C (open cup)
Explosive Properties	No data available
Relative Density (g/cm ³)	1.0 g/cm ³
Solubility [Water]	dissoluble

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID	No data available
STABILITY	No data available
MATERIALS TO AVOID	No data available
HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS	No data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (RTECS : 2003.2)

[Carbon black]

Oral	LD ₅₀ (rat)	>15,400 mg/kg
Skin	LD ₅₀ (rabbit)	>3 mg/kg

12. ECOLOGICAL INFORMATION

ECOTOXICITY	No data available
BIOACCUMULATIVE POTENTIAL	No data available
OTHER ADVERSE EFFECTS	No data available

13. DISPOSAL CONSIDERATIONS

Comply with all federal,state,EU,national and local regulations.

Do not dump this product into sewers , on the ground or into any body of water.

14. TRANSPORT INFORMATION

UN CLASS	None
UN Packing Group (PG)	None
UN NUMBER	None
Proper Shipping Name	None

15. REGULATORY INFORMATION

Refer to any other federal , state , EU , national and local regulations.

TSCA STATUS : All components on TSCA INVENTORY.

CERCLA REPORTABLE QUANTITY (40 CFR 117,302) :
Not applicable

SARA TITLE III: Not applicable

EC (2001/59/EC) : Not applicable

Please refer to any other EU, national and local measures.

16. OTHER INFORMATION

This information is furnished without warranty,express or implied,
except that it is accurate to the best knowledge of Shachihata Inc.
It relates only to the specific material designated herein,and does not relate to
use in combination with any other material or process.
Shachihata Inc. assumes no legal responsibility for
use or reliance upon this information.

Spectrum Group
Division of United Industries
P. O. Box 15842
St. Louis, MO 63114

**Hazardous Material Identification
System – (HMIS)**

HEALTH – 1

REACTIVITY – 0

FLAMMABILITY – 0

PERSONAL – Rubber
gloves

Material Safety Data Sheet

Complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200

I Trade Name: Spectracide® Brand Bug Stop Indoor Fogger			
Product Type: Total release indoor aerosol insecticide			
Product Item Number: 57755/57756		Formula Code Number: 21-0528	
EPA Registration Number	Manufacturer		Emergency Telephone Numbers
9688-119-8845	Chemsico Division of United Industries Corporation 8494 Chapin Industrial Drive St. Louis, MO 63114		For Chemical Emergency: 1-800-633-2873 For Information: 1-800-332-5553 Prepared by: C. A. Duckworth Date Prepared: September 24, 1999
II Hazards Ingredient/Identity Information		III Physical and Chemical Characteristics	
Chemical	%	OSHA PEL	ACGIH TLV
Mineral spirits CAS# 8012-95-1	5.000	100 ppm	100 ppm
Xylene CAS# 1330-20-7	4.000	100 ppm	100 ppm (skin)
Tralomethrin CAS# 66841-25-6	0.075	NA	2000 mg/kg (skin)
Isobutane CAS# 75-28-5	22.000	NE	NE
Propane CAS# 74-98-6	13.000	1000 ppm	NE
IV Fire and Explosive Hazards Data		V Reactivity Data	
Flash Point: 147° F (TCC) Flame Extension: 0-inches (Level 1 Aerosol) Flammable Limits: NA Autoignition Temperature: NA Fire Extinguishing Media: Water fog, Carbon dioxide, Dry chemical Decomposition Temperature: NA Special Fire-Fighting Procedures: Keep cans cool. Use equipment or shielding to protect personnel against bursting, rupturing or venting cans. Unusual Fire & Explosion Hazards: At elevated temperatures (over 54° C/130° F), cans may vent, rupture or burst. Also see Section V.		Stability: Stable Polymerization: Will not occur Conditions to Avoid: Temperatures over 130° F Incompatible Materials: NA Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide	
VI Health Hazard Data		VII Precautions for Safe Handling and Use	
Ingestion (Swallowing): Avoid contamination of food and drinking water. First Aid: Do not induce vomiting because of aspiration hazard. Get medical attention. Skin Contact: Harmful if absorbed through skin. First Aid: Wash with plenty of soap and water. Get medical attention if irritation persists. Eye Contact: Avoid contact with eyes. First Aid: Flush eyes with plenty of water. Get medical attention if irritation persists. Inhalation Toxicity: Harmful if inhaled. First Aid: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. Special Notes: None Health conditions Aggravated by Exposure: None known Ingredients listed by NTP, OSHA, or IARC as Carcinogens or Potential Carcinogens: None		Steps to be Taken in Case Material is Released or Spilled: Avoid breathing vapors. Avoid contact with liquid. Remove ignition sources. Waste Disposal: Do not puncture or incinerate containers. Give empty, leaking or full containers to a facility qualified to dispose of pressurized containers. Handling & Storage Precautions: Do not store where temperatures can exceed 54° C/130° F.	
VIII Control Measures		IX Transportation Data	
Read and follow label directions. They are your best guide to using this product effectively, and give necessary safety precautions to protect your health.		DOT Shipping Name: Consumer Commodity DOT Hazard Class: ORM-D	

The information and statements herein are believed to be reliable but are not to be construed as warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION					
NFPA Rating: Health-1; Flammability-3; Reactivity-0; Special--			HMIS Rating: Health-1; Flammability-3; Reactivity-0; Personal Protection-B		
Manufactured For: WAXIE Sanitary Supply Address: 9353 Waxie Way Address: San Diego, CA 92123-1036			DOT Hazard Classification: ORM-D Identity (trade name as used on label): Spiced Vanilla Dry Deodorizer & Odor Counteractant #160263		
Phone: 1-800-995-4466			MSDS Number: A00207 Revision: 4		
DOT Emergency Response Number: Chemtel 1-800-255-3924 NOTICE: JUDGEMENT BASED ON INDIRECT TEST DATA			Date Prepared: 02/01/07 Prepared by: IB Information Calls: (770)422-2071		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)
ACETONE		67-64-1	No	1000	750
ISOBUTANE / PROPANE BLEND		75-28-5	No	800	800
		74-98-6	No	1000	1000
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
Boiling Point: N/A			Specific Gravity (H2O=1): Concentrate Only = 0.8		
Vapor Pressure: PSIG @ 70°F (Aerosols): 50-60			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/A		
Vapor Density (Air = 1): N/E			Evaporation Rate (= 1): N/E		
Solubility in Water: Soluble			Water Reactive: No		
Appearance and Odor: Clear liquid with fragrance.					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols): flame projection with spray through cap: projection greater than 18" with flashback: Categorized as EXTREMELY FLAMMABLE		Auto Ignition Temperature N/E		Flammability Limits in Air by % in Volume: % LEL: N/E % UEL: N/E	
FLASH POINT AND METHOD USED (non-aerosols): N/A		SPECIAL FIRE FIGHTING PROCEDURES: Provide shielding for personnel. Wear self-contained breathing apparatus. Cool containers with water fog to prevent rupturing & spewing.			
EXTINGUISHER MEDIA: Foam, dry chemical, carbon dioxide, water.		Unusual Fire & Explosion Hazards: Do not expose aerosols to temperatures above 120°F or the container may rupture.			
SECTION 4 - REACTIVITY HAZARD DATA					
STABILITY [X] STABLE [] UNSTABLE			HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR		
Incompatibility (Mat. to avoid): Alkalis, oxidizing materials, amines.			Conditions to Avoid: Open flame, welding arcs, heat.		
Hazardous Decomposition Products: CO, CO2.					
SECTION 5 - HEALTH HAZARD DATA					
PRIMARY ROUTES OF ENTRY: [X] INHALATION [] INGESTION [] SKIN ABSORPTION [] EYE [] NOT HAZARDOUS					
ACUTE EFFECTS Vapor concentrations around 1000 ppm may cause slight transient irritation to the upper respiratory tract.					
Inhalation: Excessive inhalation of vapors can be harmful and may cause headache, dizziness, asphyxia, anesthetic effects and possible unconsciousness.					
Eye Contact: Irritation.			Skin Contact: May cause slight irritation.		
Ingestion: Possible chemical pneumonitis if aspirated into lungs. Nausea.					
CHRONIC EFFECTS: (Effects due to excessive exposure to the raw materials of this mixture) May cause mucous membrane irritation, overnight headache, and general weakness.					
Medical Conditions Generally Aggravated by Exposure: May aggravate existing eye, skin, or upper respiratory conditions.					
EMERGENCY FIRST AID PROCEDURES					
Eye Contact: Flush with water for 15 minutes. If irritated, seek medical attention.					
Skin Contact: Wash with soap and water. If irritated, seek medical attention.					
Inhalation: Remove to fresh air. Resuscitate if necessary. Get medical attention.					
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.					
SECTION 6 - CONTROL AND PROTECTIVE MEASURES					
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH or U.S. Bureau of Mines for organic vapor.					
Protective Gloves: Latex, if skin easily irritated.			Eye Protection: Safety glasses recommended.		
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.					
Other Protective Clothing & Equipment: None					
Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE					
Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations. DO NOT FLUSH TO SEWER.					
Waste Disposal Methods: Aerosol cans when vented to atmospheric pressure through normal use, pose no disposal hazard.					
Precautions To Be Taken In Handling & Storage: Do not puncture or incinerate containers. Do not store at temperatures above 120°F.					
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Avoid food contamination. Avoid breathing vapors. Remove ignition sources.					

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

** Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only

THIS MSDS IS CURRENT AS OF September 3, 2010. The DATE PREPARED section is the original date assembled and remains current until a change is necessary.
 This is tracked internally at the manufacturer by these date codes and therefore must remain as the originating date.



Safety Data Sheet

1 - Chemical Product and Company Identification

Manufacturer: WD-40 Company Address: 9715 Business Park Ave San Diego, CA , USA Post code: 92131 Telephone: +1-800-448-9340 +1-858-251-5600 24 Hour Emergency Phone Number: 1-888-324-7596 (PROSAR) Chemical Spills: 1-800-424-9300 (Chemtrec) 1-703-527-3887 (International Calls)	Chemical Name: Organic Mixture Trade Name: WD-40 Aerosol Product Use: Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces From Corrosion SDS Date Of Preparation: 12/28/17
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2 – Hazards Identification

GHS Classification:

Flammable Aerosol Category 1

Aspiration Toxicity Category 1

Skin Irritation Category 3

Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)



DANGER!

H222 Extremely flammable aerosol.

H229 Pressurized container: may burst if heated.

H304 May be fatal if swallowed and enters airways.

H316 Causes mild skin irritation.

H336 May cause drowsiness or dizziness.

Prevention

P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing mist or vapors.

P271 Use only outdoors or in a well-ventilated area.

Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 Do NOT induce vomiting.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER or doctor if you feel unwell.

P332+P313 If skin irritation occurs: Get medical attention.

Storage

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Disposal

P501 Dispose of contents and container in accordance with local and national regulations.

3 - Composition/Information on Ingredients

Ingredient	CAS #	Weight Percent	GHS Classification
Aliphatic Hydrocarbon	64742-47-8	50-70%	Flammable Liquid Category 3 Aspiration Toxicity Category 1 Skin Irritation Category 3 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)
Petroleum Base Oil	64742-56-9 64742-65-0 64742-53-6 64742-54-7 64742-71-8	<25%	Not Hazardous
Non-Hazardous Ingredients	Mixture	<10%	Not Hazardous
Carbon Dioxide	124-38-9	2-3%	Gas Under Pressure: Compressed Gas

4 – First Aid Measures

Ingestion (Swallowed): Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

Eye Contact: Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention.

Inhalation (Breathing): If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

Most Important Symptoms (acute and delayed): Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. Prolonged skin contact may cause drying of the skin. Inhalation of mists or vapors may cause nasal and respiratory tract irritation and central nervous system effects such as headache, dizziness and nausea.

Indication of Immediate Medical Attention or Special Treatment: Immediate medical attention is required for ingestion.

5 – Fire Fighting Measures

Extinguishing Media: Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

Special Fire Fighting Procedures: Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

Unusual Fire and Explosion Hazards: Contents under pressure. Extremely flammable aerosol. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors can cause a flash fire. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces.

6 – Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Eliminate all sources of ignition and ventilate area. Wear appropriate protective clothing (see Section 8).

Environmental Precautions: Report spills to authorities as required.

Methods and Materials for Containment/Cleanup: Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 – Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces

and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

Conditions for Safe Storage, including any incompatibilities: Store in a cool, well-ventilated area, away from incompatible materials. Do not store in direct sunlight or above 120°F. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

8 – Exposure Controls/Personal Protection

Chemical	Occupational Exposure Limits
Aliphatic Hydrocarbon	1200 mg/m ³ TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m ³ TWA (inhalable) ACGIH TLV (as mineral oil) 5 mg/m ³ TWA OSHA PEL (as oil mist, mineral)
Non-Hazardous Ingredients	None Established
Carbon Dioxide	5000 ppm TWA, 30,000 ppm STEL ACGIH TLV 5000 ppm TWA OSHA PEL

The Following Controls are Recommended for Normal Consumer Use of this Product

Engineering Controls: Use in a well-ventilated area.

Personal Protection:

Eye Protection: Avoid eye contact. Always spray away from your face.

Skin Protection: Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

Respiratory Protection: None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:

Eye Protection: Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

Respiratory Protection: None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

9 – Physical and Chemical Properties

Appearance:	Light amber liquid	Flammable Limits:	LEL: 0.7% UEL: 5.6% (Aliphatic Hydrocarbon)
Odor:	Mild petroleum odor	Vapor Pressure:	Not established
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not established	Relative Density:	Not established
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	320-388°F (160-198°C) (Aliphatic Hydrocarbon)	Partition Coefficient; n-octanol/water:	Not established
Flash Point:	109°F (43°C) (Aliphatic Hydrocarbon)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	Not established
VOC:	533 grams/liter (65%)	Pour Point:	Not established

10 – Stability and Reactivity

Reactivity: Non-reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide, smoke fumes, unburned hydrocarbons.

11 – Toxicological Information

Symptoms of Overexposure:

Inhalation: Mist or vapors can irritate the throat and lungs. High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

Skin Contact: Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

Eye Contact: Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing.

Ingestion: This product has low oral toxicity. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness and other central nervous system effects. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

Medical Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

Suspected Cancer Agent:

Yes No X

Numerical Measures of Toxicity:

Acute Toxicity Estimates: Oral > 5,000 mg/kg; Dermal >2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

12 – Ecological Information

Ecotoxicity: No specific aquatic toxicity data is currently available; however components of this product are not expected to be harmful to aquatic organisms

Persistence and Degradability: Components are expected to be readily biodegradable.

Bioaccumulative Potential: Bioaccumulation is not expected based on an assessment of the ingredients.

Mobility in Soil: No data available.

Other Adverse Effects: None Known

13 - Disposal Considerations

Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. Empty containers may be disposed of through normal waste management options. Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

14 – Transportation Information

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 Ltd. Qty

(Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)

IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY

ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

15 – Regulatory Information

U.S. Federal Regulations:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category For Section 311/312: See OSHA Hazard Classification in Section 2.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

International Information:

China Regulations on the Control over Safety of Dangerous Chemicals: All ingredients in this product are listed on the IECSC (Inventory of Existing Chemical Substances in China 2010).

Korea: All of the components of this product are listed on the Korean chemical inventory.

Philippines: This product contains an ingredient that is not listed on the PICCS. Only limited volumes can be imported. Contact WD40 for more information.

Japan: All of the components of this product are listed on the Japanese chemical inventory.

Taiwan: All the components of this product are listed on the Taiwan Inventory.

16 – Other Information

HMIS Hazard Rating:

Health – 2 (moderate hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)

Revision Date: December 2017

Supersedes: November 2015

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

2021300/No.

Safety Data Sheet

classification according to Canadian Hazardous Products Regulation



WINDEX® ORIGINAL GLASS CLEANER

Version 1.0

Print Date 06/20/2017

Revision Date 05/23/2017

SDS Number 350000014153

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : WINDEX® ORIGINAL GLASS CLEANER

Recommended use : Hard Surface Cleaner

Restrictions on use : Use only as directed on label

Manufacturer, importer, supplier : S.C. Johnson and Son, Limited
1 Webster Street
Brantford ON N3T 5R1

Telephone : +1-800-558-5566

Emergency telephone number : 24 Hour Transport & Medical Emergency Phone (866) 231-5406
24 Hour International Emergency Phone (952) 852-4647
24 Hour Canadian Transport Emergency Phone (CANUTEC)
(613) 996-6666

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

This product does not meet the criteria for classification in any hazard class according to the Canadian Hazardous Products Regulation

Labelling

Precautionary statements

Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product does not contain hazardous chemicals at or above a reportable level as defined by Canadian Hazardous Products Regulation

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For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

Description of first aid measures

- | | |
|---------------------|----------------------------|
| Eye contact | : No special requirements |
| Skin contact | : No special requirements |
| Inhalation | : No special requirements. |
| Ingestion | : No special requirements |

Most important symptoms and effects, both acute and delayed

- | | |
|-------------|--|
| Eyes | : No adverse effects expected when used as directed. |
| Skin effect | : No adverse effects expected when used as directed. |
| Inhalation | : No adverse effects expected when used as directed. |
| Ingestion | : No adverse effects expected when used as directed. |

Indication of any immediate medical attention and special treatment needed

See Description of first aid measures unless otherwise stated.

5. FIREFIGHTING MEASURES

- | | |
|---|--|
| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Specific hazards during firefighting | : Container may melt and leak in heat of fire. |

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Further information : Fight fire with normal precautions from a reasonable distance. Standard procedure for chemical fires. Wear full protective clothing and positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Wash thoroughly after handling.

Environmental precautions : Outside of normal use, avoid release to the environment.

Methods and materials for containment and cleaning up : Dike large spills.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing.
For personal protection see section 8.
KEEP OUT OF REACH OF CHILDREN AND PETS.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep container closed when not in use.

Other data : Stable under normal conditions.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

ACGIH or OSHA exposure limits have not been established for this product or reportable ingredients unless noted in the table above.

Personal protective equipment

Respiratory protection : No special requirements.

Hand protection : No special requirements.

Eye protection : No special requirements.

Skin and body protection : No special requirements.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Color : blue

Odour : floral

Odour Threshold : Test not applicable for this product type

pH : 10.7
at (25 C)

Melting point/freezing point : 0 C

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Initial boiling point and boiling range	: 100 C
Flash point	: does not flash
Evaporation rate	: Test not applicable for this product type
Flammability (solid, gas)	: Does not sustain combustion.
Upper/lower flammability or explosive limits	: Test not applicable for this product type
Vapour pressure	: Calculated 31.7 hPa
Vapour density	: Test not applicable for this product type
Relative density	: 1.00 g/cm ³ at 25 C
Solubility(ies)	: soluble
Partition coefficient: n-octanol/water	: Test not applicable for this product type
Auto-ignition temperature	: Test not applicable for this product type
Decomposition temperature	: Heating can release hazardous gases.
Viscosity, dynamic	: similar to water
Viscosity, kinematic	: similar to water

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Oxidizing properties	: Test not applicable for this product type	:
Volatile Organic Compounds	: 0.2 % - additional exemptions may apply	:
Total VOC (wt. %)*	*as defined by US Federal and State Consumer Product Regulations	:
Other information	: None identified	:

10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.	:
Chemical stability	: Stable under recommended storage conditions.	:
Possibility of hazardous reactions	: If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.	:
Conditions to avoid	: Direct sources of heat.	:
Incompatible materials	: Do not mix with bleach or any other household cleaners. Strong bases	:
Hazardous decomposition products	: Thermal decomposition can lead to release of irritating gases and vapours.	:

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 > 5000 mg/kg	:
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Acute inhalation toxicity : LC50 > 10 mg/L

Acute dermal toxicity : LD50 > 5000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	Oral
Acute toxicity	No classification proposed	Dermal
Acute toxicity	No classification proposed	Inhalation - Dust and Mist
Acute toxicity	No classification proposed	Inhalation - Vapour
Acute toxicity	No classification proposed	Inhalation - Gas
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

Aggravated Medical : None known.

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Condition

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

No environmental data required.

No environmental data required.

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

Land transport

Not classified as dangerous in the meaning of transport regulations.

Sea transport

Not classified as dangerous in the meaning of transport regulations.

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Air transport

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

- Notification status** : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
- Notification status** : All ingredients of this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA).
- California Prop. 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
- Canada Regulations** : This product has been classified in accordance with the hazard criteria of the Hazardous Products Act and Regulations.

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	0
Reactivity	0

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NFPA Ratings

Health	1
Fire	0
Reactivity	0
Special	-

This information is being provided in accordance with Canada's Workplace Hazard Material Information System. The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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WINDEX POWERIZED FOAMING GLASS & MULTI-PURPOSE CLEANER (AEROSOL)

National Fire Protection Association (NFPA)	Fire Hazard Health 4 1 0 Reactivity Specific Hazard	Hazardous Material Information System (HMIS)	<table><tr><td>Health</td><td>1</td></tr><tr><td>Fire Hazard</td><td>4</td></tr><tr><td>Reactivity</td><td>0</td></tr></table>	Health	1	Fire Hazard	4	Reactivity	0
Health	1								
Fire Hazard	4								
Reactivity	0								
Protective Clothing	None required.	Emergency Overview	Clear Aerosol. See Section 9. CAUTION: CONTENTS UNDER PRESSURE. May be mildly irritating to eyes.						

Section 1. Chemical Product and Company Identification

Product Name	WINDEX POWERIZED FOAMING GLASS & MULTI-PURPOSE CLEANER (AEROSOL)	Code	90129
Product Use	Industrial/Institutional: Cleaning product.	PMS#	Not available.
MSDS#	126062003	Validation Date	5/15/2002
U.S. Headquarters	Drackett Professional A Division of S.C. Johnson Commercial Markets, Inc. 8310 16th Street Sturtevant, Wisconsin 53177-0902 Phone: (888) 352-2249	Print Date	5/15/2002
		Supersedes	5/14/2002.
		In Case of Emergency	(800) 851-7145

Section 2. Composition and Information on Ingredients

Ingredients	CAS #	% by Weight	Exposure Limits	LC50/LD50
Ammonium Hydroxide	1336-21-6	< 1.0	Not available.	ORAL (LD50): Acute: 350 mg/kg [Rat].
2-Butoxyethanol	111-76-2	1-5	OSHA (United States). TWA: 120 mg/m ³ ACGIH (United States). TWA: 97 mg/m ³	ORAL (LD50): Acute: 506 mg/kg [Rat]. DERMAL (LD50): Acute: 406 mg/kg [Rabbit]. VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat].
Isopropyl Alcohol	67-63-0	1-5	OSHA (United States). TWA: 980 mg/m ³ STEL: 1225 mg/m ³ ACGIH (United States). TWA: 983 mg/m ³ STEL: 1230 mg/m ³	ORAL (LD50): Acute: 5045 mg/kg [Rat]. DERMAL (LD50): Acute: 12800 mg/kg [Rabbit]. VAPOR (LC50): Acute: 16000 ppm 8 hour(s) [Rat].
Isobutane	75-28-5	1-5	Not available.	VAPOR (LC50): Acute: 0.0057 ppm 0.25 hour(s) [Rat].
Water	7732-18-5	60-100	Not available.	Not available.

Section 3. Hazards Identification

Routes of Entry	Inhalation. Skin contact. Eye contact.
Potential Acute Health Effects	
Eyes	May be mildly irritating to eyes.
Skin	None known.
Inhalation	May be irritating to nose, throat, and respiratory tract.
Ingestion	None known.
Medical Conditions	None known.
Aggravated by Overexposure:	
See Toxicological Information (section 11)	

Continued on Next Page

WINDEX POWERIZED FOAMING GLASS & MULTI-PURPOSE CLEANER (AEROSOL)

Material Safety Data Sheet

Section 4. First Aid Measures

Eye Contact	Flush immediately with plenty of water. Get medical attention if irritation occurs.
Skin Contact	Rinse with plenty of running water.
Inhalation	If breathing is difficult: Remove to fresh air. Get medical attention.
Ingestion	No specific first aid measures are required.

Section 5. Fire Fighting Measures

Flammability of the Product	NFPA 30B Level 1 Aerosol.
Flash Points	CLOSED CUP: <-7°C (19.4°F).
Products of Combustion	None known.
Fire Fighting Media and Instructions	Use water spray to keep fire-exposed containers cool. Dry chemical, carbon dioxide. Fight fire from protected location or maximum possible distance. In case of fire and/or explosion do not breathe fumes..
Protective Clothing (Fire)	Put on appropriate personal protective equipment (see Section 8.).
Special Remarks on Fire and Explosion Hazards	Aerosol product - Containers may rocket or explode in heat of fire.

Section 6. Accidental Release Measures

Personal Precautions	Put on appropriate personal protective equipment (see Section 8.).
Environmental Precautions and Clean-up Methods	Eliminate all ignition sources. In the event of major spillage: Use appropriate containment to avoid environmental contamination. Take up with sand or other non-combustible material. Place in suitable clean, dry containers for disposal by approved methods.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not puncture or incinerate.
Storage	Store in a dry, cool and well-ventilated area. Protect from freezing. Keep away from heat, sparks and flame. Pressurized container: protect from sunlight and do not expose to temperature exceeding 120°F (50°C). Do not pierce or burn, even after use. KEEP OUT OF REACH OF CHILDREN.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	No special ventilation requirements. General room ventilation is adequate.
Personal Protection	
<i>Eyes</i>	No special requirements under normal use conditions.
<i>Hands</i>	No special requirements under normal use conditions.
<i>Respiratory</i>	No special requirements under normal use conditions.
<i>Feet</i>	No special requirements under normal use conditions.
<i>Body</i>	No special protective clothing is required.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Aerosol.)
Odor	Ammoniacal.
Color	Clear
pH	10.5 to 11 [Basic.]
Specific Gravity	0.96
Boiling/Condensation Point	100°C (212°F)
Melting/Freezing Point	0°C (32°F)
Solubility in water	Complete.

Continued on Next Page

Material Safety Data Sheet

**WINDEX POWERIZED FOAMING GLASS &
MULTI-PURPOSE CLEANER (AEROSOL)**

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Excessive heat.
Incompatibility with Various Substances	Avoid mixing with: Chlorine products. Avoid mixing with: Chlorine based bleaching agents.
Hazardous Decomposition Products	When exposed to fire: Produces normal products of combustion.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Acute toxicity	ORAL (LD50) Estimated to be greater than 5000 mg/kg (rat).
Effects of Chronic Exposure	None known.
Other Toxic Effects	Not available.

Section 12. Ecological Information

Not available.

Section 13. Disposal Considerations

Waste Information	If possible, recycle empty aerosol cans to the nearest steel recycling center. Use up package or give to someone who can. Dispose of according to all federal, state and local regulations.
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Section 14. Transport Information

DOT Classification	
DOT Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.
TDG Classification	
TDG Proper Shipping Name	Please refer to the Bill of Lading/receiving documents for up to date shipping information.
TDG Class	

Section 15. Regulatory Information

Reporting in this section is based on ingredients disclosed in Section 2

US Regulations

Federal SARA 313 toxic chemical notification and release reporting: Isopropyl Alcohol
Clean air act (CAA) 112 regulated flammable substances: Isobutane
CERCLA: Hazardous substances.: 2-Butoxyethanol, Isopropyl Alcohol, Isobutane

State New Jersey spill list: 2-Butoxyethanol, Isopropyl Alcohol
New Jersey: 2-Butoxyethanol, Isopropyl Alcohol, Isobutane
Massachusetts spill list: 2-Butoxyethanol, Isopropyl Alcohol, Isobutane
Massachusetts RTK: 2-Butoxyethanol, Isopropyl Alcohol, Isobutane
Pennsylvania RTK: 2-Butoxyethanol, Isopropyl Alcohol, Isobutane
This product is not subject to the reporting requirements under California's Proposition 65.

Registered Product Information Not applicable.

Canadian Regulations

Canadian NPRI Canadian NPRI: 2-Butoxyethanol.

WHMIS Classification Class A: Compressed gas.
Class D-2B: Material causing other toxic effects (TOXIC).

WHMIS Icon



Continued on Next Page

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**WINDEX POWERIZED FOAMING GLASS &
MULTI-PURPOSE CLEANER (AEROSOL)****Registered Product Information** Not applicable.**Chemical Inventory Status** All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.**Section 16. Other Information****Other Special Considerations** Not available.**Version** 1.01**Notice to Reader**

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

PRODUCT NAME: Wonder Mist* Spray Lubricant and Corrosion Inhibitor**DISTRIBUTED BY:**

Amway Corporation
7575 Fulton Street East
Ada, Michigan 49355

MSDS/PRODUCT INFORMATION:

Amway Corporation
Business to Business Marketing Group
7575 Fulton Street East
Ada, Michigan 49355

EMERGENCY #: 1(616) 676-6307**INFORMATION #: 1-800-992-6929 Ext. 29****NFPA Codes** **Health: 2** **Flammability: 4** **Reactivity: 0****HAZARDOUS INGREDIENTS**

(per OSHA Hazard Communication Standard)

% in Product	CAS Number	COMMON NAME Chemical Name
<90	64741-65-7	MINERAL SPIRITS
	or	Heavy alkylate naphtha (petroleum)
	64742-48-9	Naphtha (petroleum), hydro treated heavy
	or	
<25	68551-17-7	Alkanes, C10-13-iso
		MINERAL OIL
<25	8042-47-5	white mineral oil (petroleum)
		ISOBUTANE
<10	78-28-5	2-methyl propane
		PROPANE
	74-98-6	Propane

PHYSICAL AND CHEMICAL CHARACTERISTICSSPECIFIC GRAVITY (H₂O=1): 0.781-0.796 (concentrate)

SOLUBILITY IN WATER: Not determined.

VAPOR PRESSURE (mm Hg): Not determined.

VAPOR DENSITY (Air = 1): Not determined.

pH: Not determined.

APPEARANCE AND ODOR: This product is a clear to slightly hazy brown liquid with a sweet hydrocarbon odor.

PHYSICAL HAZARD DATA

HAZARDS: This product is classified as a compressed gas and a flammable aerosol. Product Propellant is a flammable gas-extremely flammable/explosive. Product is an NFPA 30B Level 3 Aerosol.

FIRE HAZARDS:

FLASH POINT: The flashpoints for isobutane and propane are less than -73 C(-100 F). Flashpoint of the product concentrate is 120 F (49 C). Tag closed cap.

FIRE FIGHTING TECHNIQUES: Standard: Wear full body protection. Wear self-contained breathing apparatus to protect against products of combustion (e.g. CO, CO₂, NO₂, COCl₂, HCl, smoke, soot, unidentified organics.) Use water spray, foam, dry chemical, CO₂. Cool containers with water. Vapor pressure build-up due to fire heat may cause container rupture and rocketing.

REACTIVITY:

Revised: 09/08/95

Supersedes: 07/25/95

DL:MS010249

1 of 3

Stability: Stable

Hazardous Polymerization: Will not occur.

Conditions/material to Avoid: Avoid excessive heat, flame, contact with acids, strong oxidizers.

HEALTH HAZARD DATA

EXPOSURE LIMIT: An exposure limit for this product has not been established. Exposure limits for ingredients are listed below.

PRIMARY ROUTES OF EXPOSURE/ENTRY: This product can affect the body if it contacts the skin or eyes, is inhaled or ingested.

SIGNS/SYMPTOMS/EFFECTS OF EXPOSURE:

SKIN CONTACT: This product is not a primary skin irritant. Prolonged or repeated skin contact with this product may cause dry skin.

EYE CONTACT: This product is not a primary eye irritant.

INGESTION: Ingestion of this product may cause irritation of the mouth and throat, upset stomach, nausea, vomiting, and diarrhea. Due to the aerosol nature of this product, ingestion is unlikely. Aspiration may cause chemical pneumonitis.

INHALATION: Inhalation may cause irritation of the nose, throat, and lungs. (see below)

AGGRAVATED MEDICAL CONDITIONS: Pre-existing skin, eye and respiratory disorders.

NOTES: Inhalation effects of this product other than respiratory irritation, have not been determined. Inhalation effects of individual ingredients are noted below. A prediction as to whether these effects will be exhibited by the product as a whole is dependent on an evaluation of the product's use and extent and duration of exposure.

Inhalation overexposure to vapors or mists of mineral spirits may cause central nervous system depression (giddiness, headache, dizziness, nausea, possibly progressing to unconsciousness and death). Male rats exposed to vapors of a similar solvent for 6 weeks showed anemia and evidence of kidney damage. Supplier recommends an exposure limit of 300 ppm for an 8-hour workday. Inhalation overexposure to mists of mineral spirits can cause chemical pneumonitis. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as solvent or painter's syndrome).

Inhalation overexposure to mineral oil mists may cause pulmonary effects (lipoid pneumonitis). The OSHA Permissible Exposure Limit and ACGIH Threshold Limit Value for mineral oil mists are 5mg/m³.

Inhalation exposure to isobutane and propane may cause drowsiness, loss of consciousness, asphyxia and death. The OSHA Permissible Exposure limit for propane is 1000 ppm. The ACGIH classifies propane as a simple asphyxiant.

EMERGENCY AND FIRST AID PROCEDURES

SKIN CONTACT: Rinse thoroughly with water.

EYE CONTACT: Remove contact lenses. Rinse with a gentle stream of lukewarm water for 15 minutes, holding eyelids open. IF IRRITATION DEVELOPS, GET MEDICAL ADVICE by calling the emergency phone number on page one of this MSDS, or a local/regional Poison Control Center, or a hospital emergency room.

INGESTION: If victim is a child, give 4-8 ounces of water. For adults, give 8-12 ounces of water. Do not induce vomiting when this product is swallowed. If vomiting occurs spontaneously, keep victim in an upright position. GET MEDICAL

ADVICE by calling the emergency phone number on page one of this MSDS, or a local/regional Poison Control Center, or a hospital emergency room

INHALATION: Remove to fresh air. If irritation or breathing difficulty develops, GET MEDICAL ADVICE by calling the emergency phone number on page one of this MSDS, or a local/regional Poison Control Center, or a hospital emergency room.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF SPILLED OR RELEASED: Eliminate potential ignition sources. Wear appropriate personal protection equipment (respirator, gloves, goggles and/or face shield, boots, protective clothing). Contain/dike spill to prevent environmental release.

WASTE DISPOSAL: This product is a U.S. EPA RCRA hazardous waste. Dispose of in accordance with Federal, State and Local regulations.

HANDLING PRECAUTIONS

PROTECTIVE MEASURES: This product is a consumer product. To the extent the product is used in a fashion typical to that of a consumer, protective measures, with the exception of those indicated on the label, are not normally necessary. Where use conditions and/or extent and duration of exposure differ from typical consumer use, however, appropriate protective measures to prevent eye and prolonged skin contact (glasses, goggles, rubber gloves, protective clothing) and minimize inhalation exposure (engineering controls, NIOSH-approved respiratory protection appropriate for the hazard presented) are recommended.

Work/Hygiene Practices: For good personal hygiene, insure prompt removal from skin, and clothing.

DISCLAIMER

The information contained herein is believed to be accurate and represents the best information currently available to us, much of which comes from the manufacturer or supplier of components of this product. Therefore, Amway Corporation makes no warranty, express or implied, regarding the accuracy of the data. Health and safety precautions in this data sheet may not be adequate for all individuals and product uses. It is the user's obligation to make certain that this MSDS is the most current MSDS for the product; to evaluate the information contained in this sheet in connection with the uses to which the product is to be put in the workplace and to use the product safely in accordance with applicable laws and regulations. If there are any questions concerning the information contained in this sheet or its applicability to a particular use, the user is instructed to telephone 1-800-992-6929 Ext. 29. Amway Corporation assumes no responsibility for injury from the use of the product described in this sheet in a way different from that provided in the label directions.

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