

Safety Data Sheets

CAO



Convent, Bisbee

11/25/2019



Safety Data Sheet Index

Binder: Convent, Bisbee - CAO

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077 SUPER SPRAY ADHESIVE - 077 SUPER SPRAY ADHESIVE		KIMBALL-MIDWEST	08/29/2014	4
70% ISOPROPYL ALCOHOL - 70% ISOPROPYL ALCOHOL	67-63-0	OSTREM CHEMICAL CO. LTD.	01/31/2018	17
77610390 Spin-A-Way Spin Bonnet Carpet Cleaner - 77610390 Spin-A-Way Spin Bonnet Carpet Cleaner		Spectrum I Inc.	06/01/1999	21
9963101 Fellowes Air Duster - 9963101 Fellowes Air Duster	75-37-6	Fellowes, Inc.	08/14/2008	24
ABC Dry Chemical Fire Extinguishant - ABC Dry Chemical Fire Extinguishant		AMEREX CORPORATION	03/13/2018	27
Badger Dry Chemical Fire Extinguisher Pressurized Cylinders - Dry Chemical Fire Extinguisher Pressurized Cylinders		Badger Fire Protection, Inc.	04/01/1996	39
EASY-OFF HEAVY DUTY OVEN CLEANER (AEROSOL) - EASY-OFF HEAVY DUTY OVEN CLEANER (AEROSOL)		Reckitt Benckiser, Inc.	06/12/2009	41
Fellowes Powershred Shredder Lubricant 35250 - 35250 Fellowcs Powershred Shredder Lubricant	120962-03-0	Fellowes, Inc.	02/10/2012	51
Formula 409 Multi-Surface Cleaner - Formula 409 Multi-Surface Cleaner		The Clorox Company	08/08/2017	54
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KRYLON Crystal Clear Acrylic Spray Coating - KRYLON Crystal Clear Acrylic Spray Coating		Krylon Products Group	10/21/2011	75
LIQUID WRENCH WHITE LITHIUM GREASE - LIQUID WRENCH WHITE LITHIUM GREASE		Radiator Specialty Company	01/14/2014	79
LYSOL BRAND FOAMING DISINFECTANT BASIN, TUB & TILE CLEANER II (AEROSOL) - ALL SCENTS - LYSOL BRAND FOAMING DISINFECTANT BASIN, TUB & TILE CLEANER II (AEROSOL) - ALL SCENTS		Reckitt Benckiser, Inc.	03/18/2004	83
Lysol Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents space - Lysol Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents space		Reckitt Benckiser	07/09/2010	88

Product Name	CAS Number	Manufacturer	Version Date	Page
Miracle-Gro All-Purpose Plant Food (15-30-15) - Miracle Gro All Purpose Plant Food 15-30-15		Scotts Company	09/24/2003	95
RAID HOUSE & GARDEN BUG KILLER - RAID HOUSE & GARDEN BUG KILLER		S.C. Johnson and Son, Limited	01/26/2010	100
Schultz-Instant Liquid Plant Food - Schultz- Instant Liquid Plant Food		Schultz Company		108
STATIC GUARD ANTISTATIC SPRAY - STATIC GUARD ANTISTATIC SPRAY		B&G Foods, Inc.	05/06/2013	109

SAFETY DATA SHEET

1. Identification

Product number 80-936

Product identifier **077 Super Spray Adhesive**

Company information KIMBALL MIDWEST
4800 ROBERTS RD
COLUMBUS, OH 43228

Company phone 1-800-233-1294

Emergency telephone US 1-800-424-9300 (Chemtrec)

Version # 01

Recommended use ADHESIVE

Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



Signal word

Danger

Hazard statement

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	60.9% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 43.35% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Acetone		67-64-1	10 - 20
Butane		106-97-8	10 - 20
Dimethyl Ether		115-10-6	10 - 20
n-Hexane		110-54-3	10 - 20
Cyclohexane		110-82-7	2.5 - 10
Isobutane		75-28-5	2.5 - 10
Propane		74-98-6	2.5 - 10
Other components below reportable levels			10 - 20

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. 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.

5. Fire-fighting measures

Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Environmental precautions

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage**Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Level 3 Aerosol.

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Components	Type	Value
Dimethyl Ether (CAS 115-10-6)	STEL	2 ppm
	TWA	0.75 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
n-Hexane (CAS 110-54-3)	PEL	300 ppm 1800 mg/m3
Propane (CAS 74-98-6)	PEL	500 ppm 1800 mg/m3 1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Acetone (CAS 67-64-1)	STEL	750 ppm
	TWA	500 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Cyclohexane (CAS 110-82-7)	TWA	100 ppm
Dimethyl Ether (CAS 115-10-6)	Ceiling	0.3 ppm
Isobutane (CAS 75-28-5)	STEL	1000 ppm
n-Hexane (CAS 110-54-3)	TWA	50 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetone (CAS 67-64-1)	TWA	590 mg/m3 250 ppm
Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm
Cyclohexane (CAS 110-82-7)	TWA	1050 mg/m3 300 ppm
Dimethyl Ether (CAS 115-10-6)	Ceiling	0.1 ppm
	TWA	0.016 ppm
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3 800 ppm
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3 50 ppm
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Dimethyl Ether (CAS 115-10-6)	TWA	1880 mg/m3 1000 ppm

Biological limit values
ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	50 mg/l	Acetone	Urine	*
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines
US - California OELs: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

n-Hexane (CAS 110-54-3) Can be absorbed through the skin.

Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.
Hand protection	Wear appropriate chemical resistant gloves.
Skin protection	
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Skin protection	
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Aerosol. Compressed gas.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	97.54 °F (36.41 °C) estimated
Flash point	-156.0 °F (-104.4 °C) Propellant estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.68 g/cm3 estimated
Flammability class	Flammable IA estimated
Heat of combustion	41.8 kJ/g estimated
Percent volatile	63.6 % estimated

Specific gravity	0.683 estimated
VOC (Weight %)	55.05 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Aspiration may cause pulmonary edema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity	May be fatal if swallowed and enters airways. Narcotic effects.
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Product	Species	Test Results
13 OZ 077 SUPER SPRAY ADHESIVE LB 12PK (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	39395.2266 mg/kg, 24 Hours estimated
		49.8674 ml/kg, 24 Hours estimated
	Rabbit	6177.271 mg/kg, 4 Hours estimated
		49.8674 ml/kg, 24 Hours estimated
	Rat	28.49 ml/kg, 4 Hours estimated
<i>Inhalation</i>	Cat	8570.7695 mg/kg estimated
	Mouse	642.8571 % estimated
		5048.9795 mg/l, 120 Minutes estimated
	Rat	212.2449 %, 120 Minutes estimated
LC100	Rat	114.2857 mm/l, 2 Hours estimated
		93021.4297 ppm, 4 Hours estimated
	Rat	28490.0273 ppm, 24 Hours estimated
		108.8423 mg/l estimated
	Wistar rat	98.4066 mg/l/4h estimated
LC50	Rat	19.0476 ppm, 6 Hours estimated
	Rat	4380.9521 mg/kg estimated
		10.7533 ml/kg estimated
	Wistar rat	279.2023 g/kg estimated
<i>Oral</i>		
LD50	Rat	4380.9521 mg/kg estimated
	Wistar rat	279.2023 g/kg estimated

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	> 7426 mg/kg, 24 Hours > 9.4 ml/kg, 24 Hours
	Rabbit	> 7426 mg/kg, 24 Hours > 9.4 ml/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rat	55700 ppm, 3 Hours 132 mg/l, 3 Hours 50.1 mg/l
<i>Oral</i>		
LD50	Rat	5800 mg/kg 2.2 ml/kg
Butane (CAS 106-97-8)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes
	Rat	1355 mg/l
Cyclohexane (CAS 110-82-7)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 32880 mg/m3, 4 Hours > 5540 ppm, 4 Hours
Dimethyl Ether (CAS 115-10-6)		
Acute		
<i>Inhalation</i>		
NOEL	Rat	2 ppm, 6 Hours
<i>Oral</i>		
LD50	Rat	460 mg/kg
Isobutane (CAS 75-28-5)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes
	Rat	1355 mg/l
n-Hexane (CAS 110-54-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 4 Hours > 5 ml/kg, 4 Hours
<i>Inhalation</i>		
LC50	Rat	> 5000 ppm, 24 Hours > 31.86 mg/l 73860 ppm, 4 Hours

Components	Species	Test Results
Oral LD50	Rat	24 ml/kg 24 g/kg
	Wistar rat	49 g/kg
Propane (CAS 74-98-6)		
Acute		
Inhalation LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes
	Rat	1355 mg/l 658 mg/l/4h

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Suspected of damaging fertility.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects May cause damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Product	Species	Test Results
13 OZ 077 SUPER SPRAY ADHESIVE LB 12PK (CAS Mixture)		
Aquatic		
Algae	IC50	Algae 5127.6924 mg/L, 72 Hours estimated
Crustacea	EC50	Daphnia 143.8478 mg/l, 48 hours estimated
Fish	LC50	Fish 15.1883 mg/l, 96 hours estimated
Components	Species	Test Results
Acetone (CAS 67-64-1)		
Aquatic		
Crustacea	EC50	Daphnia 13999 mg/L, 48 Hours
		Water flea (Daphnia magna) 21.6 - 23.9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss) 4740 - 6330 mg/l, 96 hours
Cyclohexane (CAS 110-82-7)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) 23.03 - 42.07 mg/l, 96 hours

Components		Species	Test Results
Dimethyl Ether (CAS 115-10-6)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	4.3 - 7.8 mg/l, 48 hours
Fish	LC50	Striped bass (Morone saxatilis)	10.302 - 16.743 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Acetone	-0.24
Butane	2.89
Cyclohexane	3.44
Dimethyl Ether	0.1
Isobutane	2.76
n-Hexane	3.9
Propane	2.36

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

US RCRA Hazardous Waste U List: Reference

Acetone (CAS 67-64-1)	U002
Cyclohexane (CAS 110-82-7)	U056

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	None
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	Yes
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	None
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	Yes
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

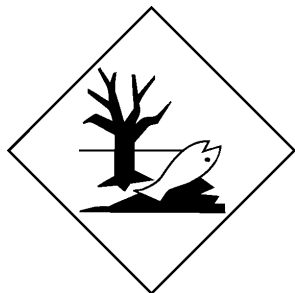
DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

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.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Acetone (CAS 67-64-1)	Listed.
Cyclohexane (CAS 110-82-7)	Listed.
n-Hexane (CAS 110-54-3)	Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
n-Hexane	110-54-3	10 - 20
Cyclohexane	110-82-7	2.5 - 10

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

n-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)
Dimethyl Ether (CAS 115-10-6)
Isobutane (CAS 75-28-5)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1)	6532
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Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1)	35 %WV
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DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1)	6532
-----------------------	------

US state regulations

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Cyclohexane (CAS 110-82-7)
Dimethyl Ether (CAS 115-10-6)
Isobutane (CAS 75-28-5)
n-Hexane (CAS 110-54-3)
Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Cyclohexane (CAS 110-82-7)
Dimethyl Ether (CAS 115-10-6)
Isobutane (CAS 75-28-5)
n-Hexane (CAS 110-54-3)
Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Cyclohexane (CAS 110-82-7)
Dimethyl Ether (CAS 115-10-6)
Isobutane (CAS 75-28-5)
n-Hexane (CAS 110-54-3)
Propane (CAS 74-98-6)

US. Rhode Island RTK

Acetone (CAS 67-64-1)
Butane (CAS 106-97-8)
Cyclohexane (CAS 110-82-7)
Dimethyl Ether (CAS 115-10-6)
Isobutane (CAS 75-28-5)
n-Hexane (CAS 110-54-3)
Propane (CAS 74-98-6)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (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
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 08-29-2014
Version # 01

Disclaimer

Plaze cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. 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.

Safety Data Sheet

1. IDENTIFICATION

Product Identifier: 70% ISOPROPYL ALCOHOL

Date of Revision: January 31, 2018

Product Code: G697

Other Name(s):

Distributed By:

Recommended Use and Restrictions on Use:

Manufactured By: Ostrem Chemical Co. Ltd.
2310 - 80th Avenue NW
Edmonton, Alberta, Canada T6P 1N2
www.ostrem.com

Phone: 780-440-1911
In Case of Emergency Only, Phone
CANUTEC: 613-996-6666

2. HAZARDS IDENTIFICATION

Classification of the Mixture: Eye Damage/Irritation - Category 2A
Specific Target Organ Toxicity (Single Exposure) - Category 3
Flammable Liquids - Category 2

Label Elements:

Hazard Pictogram(s):



Signal Word: DANGER

Hazard Statement(s): Causes serious eye irritation.
May cause drowsiness or dizziness.
Highly flammable liquid and vapour.

Precautionary Statement(s):

Prevention: Wash hands thoroughly after handling.
Avoid breathing dust, vapours or spray.
Use only outdoors or in a well-ventilated area.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves, protective clothing, and eye/face protection.

Response: 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.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison centre or physician if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Storage: Store in a well-ventilated place. Keep cool.
Keep container tightly closed.

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Physical/health hazards not otherwise classified:
not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Conc.</u>	<u>CAS #</u>	<u>Common Names</u>
isopropanol (99%)	65 - 85%	67-63-0	isopropyl alcohol

4. FIRST-AID MEASURES

Safety Data Sheet

Necessary 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.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a poison centre or physician if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Most important symptoms, both acute and delayed:

Causes serious eye irritation.
May cause drowsiness or dizziness.

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

not applicable

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use extinguishing media appropriate for surrounding fire.

Specific hazards arising from the chemical (e.g.: hazardous combustion products):

May liberate carbon monoxide and carbon dioxide.

Special protective equipment and precautions for firefighters:

As for surrounding fire. Firefighters should wear full protective clothing and self contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective equipment. See section 8.

Environmental precautions:

Prevent from entering sewers, waterways or low areas.

Methods and materials for containment and cleaning up:

Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. HANDLING AND STORAGE

Precautions for safe handling:

Wash hands thoroughly after handling.
Avoid breathing dust, vapours or spray.
Use only outdoors or in a well-ventilated area.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not ingest. Avoid contact with eyes, skin and clothing.

Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep cool.
Keep container tightly closed.
Keep out of reach of children. Store in a cool, dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters - Exposure limits:

Ingredient:
isopropanol (99%)

Limit:
ACGIH TWA: 200 ppm
STEL 400 ppm

Appropriate engineering controls:

Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

Respiratory protection:

If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

Other protection:

Wear protective gloves, protective clothing, and eye/face protection.

Safety Data Sheet

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour etc.):	colourless liquid
Odour:	strong alcohol odour
Odour threshold:	not available
pH:	neutral
Melting/Freezing point:	-16°F / -26°C
Initial boiling point and range:	not available
Flash point:	12 C
Evaporation rate:	not available
Flammability (solid, gas):	not available
Upper/lower flammability or explosive limits:	not available
Vapour pressure:	not available
Vapour density:	not available
Relative density (specific gravity):	0.856
Solubility(ies):	100%
Partition co-efficient: n-octanol/water:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
Viscosity:	not available

10. STABILITY AND REACTIVITY

Reactivity:

This material is considered to be non-reactive under normal use conditions.

Chemical stability:

Stable.

Possibility of hazardous reactions:

not available

Conditions to avoid (e.g.: static discharge, shock or vibration):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials:

Oxidizers

Hazardous decomposition products:

not available

11. TOXICOLOGICAL INFORMATION

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation:	May cause respiratory tract irritation.
Ingestion:	May be harmful if swallowed.
Eye contact:	Causes serious eye irritation.
Skin contact:	May cause mild skin irritation.
Skin absorption:	not available

POTENTIAL CHRONIC HEALTH EFFECTS

Inhalation:	not available
Ingestion:	not available
Eye contact:	not available
Skin contact:	not available
Skin absorption:	not available

Mutagenicity:	not available
Carcinogenicity:	This information, if applicable, can be found in Section 2.
Reproductive toxicity:	This information, if applicable, can be found in Section 2.
Sensitization of product:	This information, if applicable, can be found in Section 2.
Specific Target Organ Toxicity - single exposure:	This information, if applicable, can be found in Section 2.

Safety Data Sheet

Specific Target Organ Toxicity - repeated exposure:

This information, if applicable, can be found in Section 2.

Toxicological Data:

Ingredient:

isopropanol (99%)

Data:

not available

Other Toxicological Information on Ingredients:

12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available):

not available

Persistence and degradability:

not available

Bioaccumulative potential:

not available

Mobility in soil:

not available

Other adverse effects:

not available

Ecological Information on Ingredients:

not available

13. DISPOSAL CONSIDERATIONS

Waste disposal:

Disposal of all waste must be done according to local, provincial and federal regulations.

14. TRANSPORT INFORMATION

TDG classification:

UN 1219; ISOPROPYL ALCOHOL; CLASS 3; PG II

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. PREPARATION INFORMATION

Prepared by:

Technical Services Department, Ostrem Chemical Co. Ltd., Ph.: 780-440-1911

Date of Preparation:

January 27, 2017

Date of Revision:

January 31, 2018

This Safety Data Sheet may not be changed or altered in any way without the express knowledge and permission of Ostrem Chemical Co. Ltd.

End of Document

Product: 77610390 Spin-A-Way Spin Bonnet Carpet Cleaner

MATERIAL SAFETY DATA SHEET

Product Name or Number (as it appears on the label)

SPIN-A-WAY Carpet Restorer

H.M.I.S.

2 HEALTH

0 FIRE

0 REACTIVITY

B MAXIMUM PERSONAL PROTECTION

HAZARD RATING

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

A=Goggles, B=Goggles & Gloves, C=Goggles, Gloves & Apron

SECTION 1 - PRODUCT/MANUFACTURER'S IDENTITY

Manufacturer's Name

Spectrum I Inc.

Address (No, Street, City, State & Zip Codes)

618 W. Flores

Tucson, AZ 85705

Material Safety Data Sheet ID # 541370

Date

June, 1999

Emergency Telephone No.

1-800-424-9300 CHEMTREC

Information Telephone No.

(520) 791-7094

SECTION 2 - HAZARDOUS INGREDIENTS INFORMATION

Hazardous Chemical Identity	CAS NO.	%	PEL	TLV	LD50	LC50
Water	7732-18-5	60-100	N.E.	N.E.	N.D.	N.D.
2-Butoxyethanol	111-76-2	4	25ppm	25ppm	1.48g/kg	N.D.
Proprietary anionic surfactants	N.A.	5-10	N.E.	N.E.	N.D.	N.D.

This mixture contains 4% 2-Butoxyethanol which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR, Part 372.

SECTION 3 - PHYSICAL DATA

Color and Odor: Amber-Citrus	Boiling Point: 212.F	100.C
Physical State: Liquid	Freezing Point: 32.F	0.C
Odor Threshold: N.A.	Water/Oil Distribution: N.A.	
Vapor Pressure (mm HG): < 30	pH: 12.0	
Vapor Density (Air=1): < 1	Specific Gravity: 1.026	
Evaporation Rate (water=0.3): < 0.4	Solubility in water: Complete	

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: N.A.	Autoignition Temperature: N.A.
Flammable Limits: N.A.	LEL: N.A. UEL: N.A.
Hazardous Combustion Products: N.A.	
Extinguishing Media: Use media proper to the primary cause of fire.	
Special Fire Fighting Procedures: None	
Unusual Fire and Explosion Hazards: None	

SECTION 5 - REACTIVITY DATA

Chemical stability: Yes ☒ No ☐
Incompatibility (Materials to Avoid): Strong acids and oxidizers.
Hazardous Decomposition of By-Products: None known
Hazardous Polymerization: May occur ☐ Will not occur ☒

SECTION 6 - TOXICOLOGICAL PROPERTIES

Routes of Entry: Ingestion, Inhalation, Skin, Eyes
Sensitization: Yes ☐ No ☒
Toxicologically synergistic Products: None known
Medical Conditions Aggravated by Exposure: None known
Carcinogenicity: None Teratogenicity: None Mutagenicity: None
Reproductive Toxicity: None

EFFECTS OF OVEREXPOSURE (Acute and/or Chronic):
Eyes: Direct contact may cause severe irritation, redness.
Skin: May cause irritation, redness. May be absorbed through skin with prolonged or repeated contact.
Ingestion: May cause severe gastrointestinal tract irritation, nausea, diarrhea.
Inhalation: Prolonged exposure in poorly ventilated area may irritate nasal mucous membranes.

SECTION 7 - PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: None normally required with adequate room ventilation.
Protective Gloves: Rubber for prolonged exposure.
Protective Clothing and Equipment: As needed to prevent wetting of skin.
Storage Requirements: Store in cool, dry area. Follow good housekeeping practices.
Ventilation: Local Exhaust: Acceptable Mechanical: Recommended
Eye Protection: Safety glasses if splashing is likely.
Work and Hygienic Practices: Wash thoroughly after use.
Other Requirements: Keep out of the reach of children.

Steps to be taken if material is spilled or released: Collect and reuse if possible. Flush to sewer with large quantities of water if permitted by regulatory authorities or absorb on inert material (sand, clay, etc.) and place into container for proper disposal. Do not allow runoff into public waterways.
Waste Disposal: Dispose of as permitted by all federal, provincial, state and local regulatory authorities.

SECTION 8 - EMERGENCY FIRST AID PROCEDURES

FIRST AID - NOTES TO PHYSICIAN:
Eyes: Flush with a large amount of water for 15 minutes holding eyelids open. Seek medical attention.
Skin: Wash with mild soap and water.
Ingestion: Give 2-3 large glasses of water. Do not induce vomiting. Seek medical attention.
Inhalation: Remove to fresh air and rest. In all cases, if symptoms

persist, seek medical attention.

Abbreviation Key: N.A.= Not Applicable, N.E.= Not Established,
N.D.= Not Determined



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: 9963101 Fellowes Air Duster

Description: Cleaning Dust

SECTION 2: HAZARD IDENTIFICATION

Inhalation: Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness, or death. Vapor reduces oxygen available and is heavier than air.

Eyes: Liquid can cause severe eye irritation.

Skin: Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite. Prolonged and repeated contact can result in defatting and drying skin, which may result in irritation and rash.

Ingestion: Not considered an ingestion hazard.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name:</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Maximum Weight :</u>
1,1-Difluoroethane	75-37-6	200-866-1	100%

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration or oxygen. Seek medical attention immediately.

Eyes: Immediately flush eyes with plenty of water. If irritation persists, get medical attention.

Skin: In case of frostbite, get immediate medical attention.

Ingestion: Ingestion is not considered a potential route of exposure. If it should occur, gastrointestinal discomfort may occur.

SECTION 5: FIREFIGHTING MEASURES

Flash Point: -58F (-50C)

Flammability Limits in Air by volume: **Lower:** 3.7% **Upper:** 18.0%

Extinguishing Media: As appropriate for surrounding area.

Special Firefighting Measures: Use water spray to cool containers. Wear self-contained breathing apparatus and full protective gear.

Unusual Hazards: Contents under pressure. Container may rupture under fire conditions.



SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid all sources of ignition: heat, sparks, and open flames. Spills and releases may need to be reported to Federal and/or local authorities.

SECTION 7: HANDLING AND STORAGE

Handling: Follow standard safety precautions for handling and use of compressed gas cylinders.
Storage: Do not store at temperatures above 120F (50C).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes and Face: None necessary when product is used as intended.
Clothing: General work clothing should provide adequate protection.
Respiratory: None necessary when product is used as intended.
Ventilation: Normal ventilation is adequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: -13F (-25C)
Evaporation Rate: >1
Specific Gravity: 0.909
Solubility in Water: Slight
Appearance/Odor: Colorless gas; mild ethereal odor

SECTION 10: STABILITY AND REACTIVITY

Stable: Stable
Conditions to Avoid: Keep away from heat, sparks, or open flames.
Chemical Incompatibility: Keep away from finely powdered metals, strong oxidizers.
Hazardous Decomposition: May produce hazardous materials in fire situation.
Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation LC50: >380000 ppm (4 hours)
Mutagenicity: Data indicates non-mutagenic



SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity: 48 hour EC50 Daphnia magna: 980 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Do not incinerate or puncture. Dispose in accordance with Local, State, and Federal regulations.

Additional Information: Recover, reclaim, or recycle when practical.

SECTION 14: TRANSPORT INFORMATION

DOT: UN1030, 1,1-Difluoroethane, 2.1

IATA: UN1030, 1,1-Difluoroethane, 2.1 (Cargo Air Only)

IMO: UN1030, 1,1-Difluoroethane, 2.1

SECTION 15: REGULATORY INFORMATION

United States: This product is listed on the Toxic Substances Control Act Inventory.

Canada: All components are listed on the Canadian DSL.

EU: Currently not classified according to EEC Directives.

Additional: None

SECTION 16: OTHER INFORMATION

WARNING: INTENTIONAL MISUSE BY DELIBERATELY INHALING CONTENTS CAN BE FATAL.

This Material Safety Data includes consumer use of the following products: 9963101, 9963201, 9963301.

The information contained in the Material Safety Data Sheet is believed to be correct and used as a guide.

August 14, 2008

HMIS RATING	
Health	1
Flammability	4
Physical Hazard	0
Personal Protection	N/A



SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ABC Dry Chemical Fire Extinguishant
Other Identifiers: Multi-purpose Dry Chemical
Product Code(s): CH555, F13, F11
Model Code(s) of Extinguishers: 402, IS 18ABC, IS35ABC, IS 45ABC, 13ABC, V25ABC, VH25ABC, V30ABC, VH30ABC, V50ABC, VS50ABC, VS75ABC, V250ABC
Recommended Use: Fire suppression, not for human or animal drug use.
Manufacturer: AMEREX CORPORATION
Internet Address: www.amerex-fire.com
Address: 7595 Gadsden Highway, P.O. Box 81
Trussville, AL 35173-0081
Company Telephone: (205) 655-3271
E-mail Address: info@amerex-fire.com
Emergency Contacts: Chemtrec 1(800) 424-9300 or (703) 527-3887
Revised: March 13, 2018

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: Category 3	None	None
Skin Sensitization: NO	None	None
Eye: Category 2A	None	Warning
STOT – Category 3	None	Warning
Carcinogen: Category None	None	None

GHS – Label Symbol(s):



If Pressurized: Gas Under Pressure



GHS – Words(s):

Warning

Other Hazards Not Resulting in Classification: Mica may contain small quantities of quartz (crystalline silica). Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling

lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans. In the case of normal use of this product, exposure to silica should be nil.

The attapulgite clay used in this product has a fiber length of less than 5µm; therefore, the clay is not considered to be carcinogenic in animals or humans.

GHS – Hazard Phrases

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	H229	*- Contents under pressure; may explode if heated.
Health	H303 315 319 335	May be harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation
Environmental	None	
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand
Prevention	P251 261 264 280	Do not pierce or burn, even after use. Avoid breathing dust/fumes/gas/mist/vapours/spray. Wash exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	P312 321 362 302+352 304+340 305+351+338 332+313 342+311 337+313	Call a doctor if you feel unwell. Specific treatment (see Section 4. First Aid Measures) Take off contaminated clothing. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a doctor. If eye irritation persists get medical advice/attention.
Storage	P410 +403	*- Protect from sunlight. Store in well-ventilated place.
Disposal	P501	Dispose of contents through a licensed disposal company. Contaminated container should be disposed of as unused product.

*- If under pressure

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %	Classification
Mono-ammonium phosphate	231-764-5	01-2119488166-29	7722-76-1	80-98	NA
Attapulgite clay	601-805-5	Not Available	12174-11-7	3-16	NA
Mica-potassium aluminum silicate	310-1276	Not Available	12001-26-2	1-2	NA
Silicone oil methyl hydrogen polysiloxane	613-152-3	Not Available	63148-57-2	<1	NA
Calcium carbonate	207-439-9	Not Available	1317-65-3	<1	NA
Amorphous silica precipitated synthetic zeolite	231-545-4	01-2119379499-16-0036	7631-86-9	<1	NA
Yellow 14 pigment – di-azo dye	226-789-3	Not Available	5468-75-7	<1	NA

Emergency overview:

Adverse health effects and symptoms:

Light yellow, fine solid powder, odorless.

Mild irritant to the respiratory system. Irritant to eyes, and skin. Symptoms may include coughing,

shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

Section 4. FIRST AID MEASURES

Eye Exposure:	May cause irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation develops, or if vision changes occur.
Skin Exposure:	May cause skin irritation. In case of contact, wash with plenty of soap and water. Seek medical attention if irritation persists.
Inhalation:	May cause irritation, along with coughing. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if irritation persists.
Ingestion:	Overdose symptoms may include numbness or tingling in hands or feet, uneven heart rate, paralysis, feeling faint, chest pain or heavy feeling, pain spreading to the arm or shoulder, nausea, diarrhea, sweating, general ill feeling, or seizure (convulsions). If victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist.
Medical conditions possibly aggravated by exposure:	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease. Chronic overexposure may cause pneumoconiosis ("dusty lung" disease).

Section 5. FIRE-FIGHTING MEASURES

Flammable Properties:	Not flammable
Flash Point:	Not determined
Suitable Extinguishing Media:	Non-combustible. Use extinguishing media suitable for surrounding conditions.
Hazardous Combustion Products:	Carbon oxides

Explosion Data:

Sensitivity to Mechanical Impact:

Not sensitive

Sensitivity to Static Discharge:

Not sensitive

Unusual fire/explosion hazards:

In a fire this material may decompose, releasing oxides of carbon, potassium and nitrogen (see Section 10).

Protective Equipment and

Precautions for Firefighters:

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

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid contact with skin, eyes, and clothing.

Personal Protective Equipment:

Minimum - safety glasses, gloves, and a dust respirator.

Emergency Procedures:

NA

Methods for Containment:

Prevent further leakage or spillage if safe to do so.

Methods for Clean Up:

Avoid dust formation; clean up released material using vacuum or wet sweep and shovel to minimize generation of dust. Bag and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

Other:

If product is contaminated, use PPE and containment appropriate to the nature of the most toxic chemical/material in the mixture.

Section 7. HANDLING AND STORAGE

Personal Precautions:

Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8).

Conditions for Safe Storage:

Keep product in original container or extinguisher. Contents may be under pressure – inspect for extinguisher rust periodically to ensure container integrity.

Incompatible Products:

Do not mix with other extinguishing agents, particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high humidity. Do not combine with chlorine compounds.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Mono-ammonium phosphate	PNOC** Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	PNOC Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	NA
Mica	6 mg/m ³	3 mg/m ³	-----	NA
Attapulgate clay	PNOC** Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	PNOC Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	
Silicone oil	NR**	NR		
Calcium carbonate	PNOC Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	-----	NA
Amorphous silica	20mppcf 80 mg/m ³ or % SiO ₂	10 mg/m ³	4 mg/m ³	NA
Yellow 14 pigment	NR	NR	NR	NA

*German regulatory limits **PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) *** NR = Not Regulated. All values are 8 hour time weighted average concentrations.

Engineering Controls:

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment – PPE Code E:

The need for respiratory protection is not probable during short-term exposure. During production, the manufacturer should use judgement concerning the need for PPE.



Eye/Face Protection:
Skin and Body Protection:
Respiratory Protection:

Tightly fitting safety goggles
Wear protective gloves/coveralls
If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use P100 respirators for limited exposure. Use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged

exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. The need for respiratory protection is not likely for short-term use in well ventilated areas.

Hygiene Measures:

Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-to-mouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow powder, finely divided odorless solid
Molecular Weight:	NH ₄ H ₂ PO ₄ : 115.03
Odor:	Odorless
Odor Threshold:	No information available
Decomposition Temperature °C:	100 - 120
Freezing Point °C:	No information available
Initial Boiling Point °C:	No information available
Physical State:	Crystalline Powder
pH:	Approximately 4.4 to 4.9
Flash Point °C:	None
Autoignition Temperature °C:	None
Boiling Point/Range °C:	No information available
Melting Point/Range °C:	NH ₄ H ₂ PO ₄ : 190
Flammability/Explosion Limits in Air °C:	Upper – None; Lower-None
Explosive Properties:	None
Oxidizing Properties:	None
Volatile Component (%vol)	Not applicable
Evaporation Rate:	No information available
Vapor Density:	No information available
Vapor Pressure:	NH ₄ H ₂ PO ₄ : 1.41 mm/Hg
Specific gravity at 25 °C:	NH ₄ H ₂ PO ₄ : 1.80
Solubility:	40.4 g/100 ml
Partition Coefficient:	NH ₄ H ₂ PO ₄ Est: -4.11
Viscosity:	No information available
NOTE: NH ₄ H ₂ PO ₄ – Monoammonium Phosphate	

Section 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage and handling conditions.
Incompatibles:	Strong oxidizing agents; Strong acids; sodium hypochlorite and chlorine compounds. Protect from moisture
Conditions to Avoid:	Storage or handling near incompatibles.
Hazardous Decomposition Products:	Carbon, nitrogen, and potassium oxides. Heat of fire may release carbon monoxide.
Possibility of Hazardous Reactions:	None
Hazardous Polymerization	Does not occur

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation, skin and eye contact.
Symptoms:	
Inhalation:	Irritation, coughing.
Eyes:	Irritation.
Skin:	Irritation.
Acute Toxicity:	Relatively non-toxic.
Chronic Toxicity:	
Short-term Exposure:	None known.
Long-term Exposure:	As with all dusts, pneumoconiosis, or "dusty lung" disease, may result from chronic exposure.

Acute Toxicity Values - Health

Chemical Name	LD50		LC50 (Inhalation)
	Oral	Dermal	
Mono-ammonium phosphate	5750 mg/kg (rat)	>7940 mg/kg (rabbit)	Not available
Mica	None	None	None
Attapulgate clay	None	None	None
Silicone oil	None	None	None
Calcium carbonate	6450 mg/kg (rat)	500 mg/24 hr (rabbit)	Not available
Amorphous silica	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>2.2 mg/L (rat)
Yellow 14 pigment	>17000 mg/kg (rat)	>3000 mg/kg (rat)	>4448 mg/m3 (rat)

Reproductive Toxicity:	This product's ingredients are not known to have reproductive or teratogenic effects.
Target Organs and Effects (TOST):	Respiratory system (mild irritant). This product is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization.

Other Toxicity Categories

Chemical Name	Germ Cell Mutagenicity	Carcinogenicity	Reproductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Mono-ammonium phosphate	None	None	None	Cat 3	None	None
Attapulgate clay	None	None	None	None	None	None
Mica	None	None	None	None	None	None
Silicone oil	None	None	None	None	None	None
Calcium carbonate	None	None	None	None	None	None
Amorphous silica	None	None	None	None	None	None
Yellow 14 pigment	None	None	None	None	None	None

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:	Negative effects unknown. Provides nutrient nitrogen and phosphorus to plant life.
Persistence/Degradability:	Degrades rapidly in humid/wet environment.
Probability of rapid biodegradation:	NH ₄ H ₂ PO ₄ Est: 0.693 (Rapid); (NH ₄) ₂ SO ₄ : Est: 0.684 (Rapid)
Anaerobic biodegradation probability:	NH ₄ H ₂ PO ₄ Est: 0.398 (Slow); (NH ₄) ₂ SO ₄ : Est: 0.398 (Slow)
Bioaccumulation potential:	Low.
Bioconcentration factor:	NH ₄ H ₂ PO ₄ : 3.16 L/kg (wet weight) (Low BCF)
Bioaccumulation factor:	NH ₄ H ₂ PO ₄ : 63.04 L/kg (wet weight)
Mobility in soil:	Slow evaporation rate; water soluble, may leach to groundwater
Log Koc:	NH ₄ H ₂ PO ₄ Est: -1.25
Log Koa:	NH ₄ H ₂ PO ₄ Est: 16.72
Log Kaw:	NH ₄ H ₂ PO ₄ Est: -20.86
NOTE: NH ₄ H ₂ PO ₄ – Mono-ammonium Phosphate	

Other Adverse Ecological Effects: No other known effects at this time

Aquatic Toxicity Values – Environment – Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Mono-ammonium phosphate	N/A	N/A
Mica	N/A	N/A
Attapulgate clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Aquatic Toxicity Values – Environment – Estimates

Chemical Name	Acute (LC50)	EC50
Mono-ammonium phosphate	2,91e+07 mg/L Fish 96 hr; 9.4e+06 mg/l Daphnid 48 hr;	6.70e+05 mg/L Gr. Algae 96 hr
Mica	N/A	N/A
Attapulgite clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling

Use appropriate PPE when handling, and wash thoroughly after handling (see Section 8).

Waste Disposal Considerations

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

Contaminated Packaging

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

NOTES:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. TRANSPORT INFORMATION

UN Number: NA

UN Proper Shipping Name: NA

Transport Hazard Class: NA

Packing Group: NA

Marine Pollutant?: NO

IATA Not regulated

DOT Not regulated

NOTES:

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

Special Precautions for Shipping:

The transportation information above covers the ABC 555 dry chemical extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems. If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic

inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

Country(ies)	Agency	Status
United States of America	TSCA	Yes
Canada	DSL	Yes
Europe	EINECS/ELINCS	Yes
Australia	AICS	Yes
Japan	MITI	Yes
South Korea	KECL	Yes

REACH Title XVII Restrictions: No information available

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on Label	Pollution Release and Transfer Registry (Class II)	Pollution Release and Transfer Registry (Class I)	Poison and Deleterious Substances Control Law
Monoammonium Phosphate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Component	ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA – Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
Monoammonium Phosphate 7722-76-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgate clay 12174-11-7 (>3)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Mica-potassium aluminum silicate 120001-26-2 (>2)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Calcium carbonate 471-34-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amorphous silica 69012-64-2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Yellow 14 pigment 5468-75-7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

European Risk and Safety phrases:

EU Classification: Xn - Irritant

R Phrases:	20	Harmful by inhalation.
	36/37/38	Irritating to eyes, respiratory system and skin.
S Phrases:	22	Do not breath dust.
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36	Wear suitable protective clothing.

U.S. Federal Regulatory Information:

SARA 313:

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

None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

SARA 311/312 Hazard Categories:

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

* - Only applicable if material is in a pressurized extinguisher.

Clean Water/Clean Air Acts:

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) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None

California – Permissible Exposure Limits for Chemical Contaminants: None

Florida – Substance List: Mica Dust

Illinois – Toxic Substance List: None

Kansas – Section 302/303 List: None

Massachusetts – Substance List: Mica Dust

Minnesota – List of Hazardous Substances: None
Missouri – Employer Information/Toxic Substance List: None
New Jersey – Right to Know Hazardous Substance List: None
North Dakota – List of Hazardous Chemicals, Reportable Quantities: None
Pennsylvania – Hazardous Substance List: None
Rhode Island – Hazardous Substance List: Mica Dust
Texas – Hazardous Substance List: No
West Virginia – Hazardous Substance List: None
Wisconsin – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

Other:

Mexico – Grade	No component listed
Canada – WHMIS Hazard Class	No component listed

Section 16. OTHER INFORMATION

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

Issuing Date	17-June-2012
Revision Date	13-March-2018
Revision Notes	None

The information herein is given in good faith but no warranty, expressed or implied, is made.
Updated by William F. Garvin, CIH.



BADGER FIRE PROTECTION, INC.

MATERIAL SAFETY DATA SHEET

Emergency # (800) 424-9300
4251 Seminole Trail
Charlottesville, VA 22911 (804) 973-4361
Date: April, 1996

SECTION 1 NAME & HAZARD SUMMARY

Material name: Dry Chemical Fire Extinguisher Pressurized Cylinders
Manufacturer: Badger Fire Protection, Inc. • Phone (804) 973-4361

SECTION 2 INGREDIENTS

OSHA PEL: NA **ACGIH TLV:** NA **Other Exposure Limits:** NA **CAS No:** NA

This cylinder contains Dry Chemical (Regular, ABC, or Purple-K). See the National Fire Protection Association Booklet NFPA No. 10. When the cylinder is discharged, the agent will be released and may, under certain circumstances, present hazards to exposed persons. See attached representative MSD's for information and warnings concerning the appropriate Agent. In addition, the cylinders are pressurized with dry air, Nitrogen, or CO₂. Although unlikely to occur, a cylinder and/or the valve could be propelled, and cause bodily injury or property damage if the valve is broken due to improper handling or storage. Also, if a cylinder is subject to severe physical impact, direct heat, or over-pressurization, it could discharge through an outlet or safety device or rupture causing bodily injury or property damage. See below for information concerning the potential physical hazards associated with compressed gas.

SECTION 3 PHYSICAL DATA

Boiling point: NA **Specific gravity (H₂O=1):** NA **Vapor Pressure (mm Hg):** NA
Vapor density (Air = 1): NA **Solubility in water:** NA **Reactivity in Water:** NA
Appearance and odor: NA **Melting Point:** NA

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash point : NA **Method Used:** NA **Flammable Limits in Air % by Volume:** LEL Lower: NA UEL Upper: NA
Auto-Ignition Temp.: NA **Extinguisher Media:** NA
Special Fire Fighting Procedures: NA
Unusual Fire and Explosion Hazards: See Sections 2 and 7.

SECTION 5 REACTIVITY DATA

Stability: Stable **Conditions to Avoid:** Direct heat, severe physical impact or over-pressurization.
Hazardous polymerization: Will not occur. **Conditions to Avoid:** NA

SECTION 6 HEALTH HAZARD ASSESSMENT

Acute: NA **Chronic:** NA **Signs and Symptoms of Exposure:** Ingestion: NA
Medical Conditions Generally Aggravated by Exposure: NA
Chemical Listed as Carcinogen or Potential Carcinogen: National Toxicology Program : No
I.A.R.C.: No **OSHA:** No
Emergency and First Aid Procedures: In the event of physical injury, take appropriate first aid or medical measures.
Routes Of Entry: 1. Inhalation: NA 2. Eyes: NA 3. Skin: NA 4. Ingestion: NA



Dry Chemical Fire Extinguisher Pressurized Cylinders *continued*

SECTION 7 SPILL OR LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: Handle, transport and store carefully and securely to avoid accidental knocking over or other severe physical impacts. Do not expose to direct heat sources. Do not over-pressurize. If the cylinder is discharged, avoid breathing the contents or contact with skin.

Other Precautions: Safety pins and safety seals should remain on extinguisher when not in use.

Steps to be Taken in Case Material is Released or Spilled: Cylinders and cartridges should be refilled only by trained and qualified personnel.

Waste Disposal Methods: NA

SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory Protection: NA **Ventilation: Mechanical (General):** NA **Special:** None **Other:** NA

Local Exhaust: NA.

Protective Gloves: Wear gloves when handling cylinders.

Eye Protection: Wear safety glasses.

Other Protective Clothing or Equipment: Safety shoes are recommended when handling cylinders.

Work/Hygienic Practices: None Established.

Note: This Material Safety Data Sheet (MSDS) addresses the hazards associated with compressed gas only. For information concerning the fire suppression agent (Regular, ABC or Purple-K) refer to the appropriate MSDS.

In each instance, in this MSDS, where the letters NA or the words Not Applicable are used, it means Not Applicable with respect to compressed gas.



MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

Print date: 12-June-2009

1. PRODUCT AND COMPANY IDENTIFICATION

MSDS Number 371752PSDS

Commercial Product Name EASY-OFF® HEAVY DUTY OVEN CLEANER (AEROSOL)

Validation/Revision Date: 12-June-2009

Formula Number: 772-004 (FF371752)

UPC Code(s) and Size: 62338 00138 (16oz . Aerosol Can)
62338-81397 (2/24oz. - Club Item)
62338-81398 (24oz. - Club Item)

Product Description: An Aerosol Spray Oven Cleaner.

Manufacturer: Reckitt Benckiser Inc.
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, New Jersey 07054-0225
Telephone: +1 973 404 2600

Emergency Telephone Number: 1-800-228-4722 (U.S.)

Transportation Emergencies: 1-800-424-9300 (U.S. & Canada) CHEMTREC
Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Proportion (% w/w)	ACGIH - Occupational Exposure Limits - TWAs	OSHA PEL
Sodium hydroxide 1310-73-2	1 - 5 %	-	TWA: 2 mg/m ³
n-butane 106-97-8	1 - 5 %	= 1000 ppm TWA	TWA: 800 ppm
(2-(2-butoxyethoxy)ethanol) Diethylene glycol monobutyl ether 112-34-5	1 - 5 %	-	-
2-aminoethanol 141-43-5	1 - 5 %	-	TWA: 3 ppm STEL: 15 mg/m ³ STEL: 6 ppm TWA: 6 mg/m ³ TWA: 3 ppm

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

3. HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW:

DANGER:

CORROSIVE.

Contains Sodium hydroxide (Lye).

Will burn eyes and skin.

Harmful if swallowed

Avoid contact with skin, eyes, mucous membranes and clothing.

DO NOT ingest.

Use only with adequate ventilation.

Avoid breathing spray mist.

Wear long rubber gloves when using.

CONTENTS UNDER PRESSURE.

DO NOT puncture or incinerate container.

DO NOT expose to heat or store at temperatures above 120°F (50° C).

KEEP OUT OF REACH OF CHILDREN

4. FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms develop or persist, seek medical advice.
Skin Contact	Rinse immediately and remove contaminated clothing. Wash thoroughly with soap and water and continue flushing for at least 10 minutes. If discomfort persists, seek medical attention immediately.
Eye Contact	If in eyes, IMMEDIATELY flush eyes with water. Remove any contact lenses and continue to flush eyes for at least 15 minutes. If irritation persists, seek medical attention immediately.
Ingestion	Rinse mouth with water. If symptoms persist, call a physician or Poison Control Centre immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.
Notes to Physician	Treat symptomatically
Protection of First-aiders	Use personal protective equipment.
Aggravated Medical Conditions:	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 .

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

5. FIRE-FIGHTING MEASURES

Flash point:	Not applicable. Aerosol flame extension less than 18 inches (45 cm)
Flammability Limits in Air:	
Lower	No information available.
Upper	No information available.
Autoignition Temperature:	No information available.
Suitable Extinguishing Media:	As suitable for surrounding fire.
Extinguishing Media which must not be used for safety reasons:	No information available.
Specific hazards:	See Section 3, Hazard Identification.
Unusual hazards:	CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Exposure to temperatures above 120°F (50°C) may cause bursting. Do not use or store near heat or open flames. Aerosol cans may explode with extreme heat and become projectiles.
Special Protective Equipment for Fire Fighters:	As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.
Precautions for Fire Fighters:	Standard procedure for chemical fires. Move aerosol containers away from fire if possible and safe to do so. Use water spray to cool fire exposed containers. Provide shielding to protect firefighters from venting, rupturing or bursting containers.
NFPA Aerosol Level:	Flammability Rating 1, per NFPA 30B.
NFPA:	Health Hazard: 3 Flammability: 1 Instability: 0
HMIS:	Health Hazard: 3 Flammability: 2 Reactivity: 0
Key:	(Also see Sections 3 & 8) Personal Protection Index = D.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection
Environmental Precautions:	Do not allow material to contaminate ground water system.
Methods for Cleaning Up	Wearing appropriate personal protective equipment; Soak up with inert absorbent material Keep in suitable and closed containers for disposal After cleaning, flush away traces with water Eliminate all ignition sources if safe to do so Large spills should be diked, contained and collected for later disposal according to local, provincial, state or federal regulations.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

7. HANDLING AND STORAGE

Handling:	Ensure adequate ventilation
Safe Handling Advice:	Read and follow product label instructions. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe spray mist Wear personal protective equipment. Wash hands thoroughly after handling
Storage:	Protect from sunlight and store in well-ventilated place Keep away from open flames, hot surfaces and sources of ignition Keep from freezing Keep out of the reach of children.
Conditions for Safe Storage:	Contents under pressure. DO NOT puncture or incinerate. Keep at temperatures below 50 °C.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Read label instructions carefully.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL
Sodium hydroxide 1310-73-2		TWA: 2 mg/m ³
n-butane 106-97-8	TWA: 1000 ppm	TWA: 800 ppm
(2-(2-butoxyethoxy)ethanol) Diethylene glycol monobutyl ether 112-34-5		-
2-aminoethanol 141-43-5	STEL: 6 ppm	TWA: 3 ppm STEL: 15 mg/m ³ STEL: 6 ppm TWA: 6 mg/m ³ TWA: 3 ppm

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

Engineering Controls: For occupational exposures, ensure adequate ventilation.

Personal Protective Equipment

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required
Use only with adequate ventilation

Hand Protection: Rubber gloves
Long sleeved clothing

Eye Protection: Tightly fitting safety goggles.

Skin and Body Protection: Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions.

Hygiene Measures: Avoid contact with skin, eyes and clothing.
Wash hands with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.
Appearance: Aerosol
Colour: White
Odour: Floral.
pH 13.3

Flash Point: Not applicable. Flame extension less than 18 inches or 45 cm
Autoignition Temperature: No information available.
Specific gravity [g/mL]: 1.052 @ 25°C (Concentrate)
Vapour Pressure: Not determined.
Solubility: > 95% @ 70°F

Explosion limits:

- upper: No information available.
- lower: No information available.

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Conditions to Avoid: Avoid freezing.
Keep away from open flames, hot surfaces and sources of ignition
Avoid temperatures above 50 °C / 120 °F

Materials to Avoid: Do not spray on pilot light, electrical connections, switches, heating elements, or thermostats.
Do not spray onto aluminum or painted surfaces as damage to these surfaces may occur.
Do not use on grill exterior, interior or components.

Hazardous Decomposition Products: Oxides of carbon and unknown organic compounds.

Polymerization: Hazardous polymerisation does not occur.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

11. TOXICOLOGICAL INFORMATION
PRODUCT TOXICITY DATA
LD₅₀ Oral: No information available

LD₅₀ Dermal: No information available

LC₅₀ Inhalation (Dust): No information available

LC₅₀ Inhalation (Vapor): No information available

Acute Effects:
Eye Irritation Causes burns

Skin Irritation Causes burns

Inhalation None expected during normal use. However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal

Ingestion Harmful if swallowed.

Sensitization Not expected to be a skin sensitiser.

Specific Effects
Carcinogenic Effects: Not listed as carcinogenic by OSHA, NTP or IARC.

Mutagenic Effects No information available.

Reproductive Toxicity: No information available.

Additional Toxicity Information: Information is based on available component data and toxicity result of similar products.

COMPONENT TOXICITY DATA

Chemical Name	CAS#	LD50 Oral - With Units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
(2-(2-butoxyethoxy)ethanol) Diethylene glycol monobutyl ether	112-34-5	3384 mg/kg (Rat)		
2-aminoethanol	141-43-5	1720 mg/kg (Rat)	1025 mg/kg (Rabbit)	

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

12. ECOLOGICAL INFORMATION
PRODUCT TOXICITY DATA
Aquatic toxicity: No information available

COMPONENT TOXICITY DATA

(2-(2-butoxyethoxy)ethanol) Diethylene glycol monobutyl ether
112-34-5 (1 - 5 %)

Water Flea EC50 > 100 mg/L 48 h

2-aminoethanol
141-43-5 (1 - 5 %)

Freshwater Fish LC50 = 227 mg/L Pimephales promelas 96 h
LC50 = 329.16 mg/L Lepomis macrochirus 96 h
LC50 = 3684 mg/L Brachydanio rerio 96 h

Microtox EC50 = 12200 mg/L 2 h
EC50 = 13.7 mg/L 30 min

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 empty container in household trash.

Waste Disposal:

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.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

14. TRANSPORT INFORMATION
DOT

Proper shipping name: Aerosols
UN-No: UN 1950
Hazard Class 2.2 (8)
Subsidiary Class Not applicable
Packing group: Not applicable
Reportable Quantity (RQ): Not applicable
Description: UN 1950, Aerosols, Class 2.2 (8), Re-classed as Consumer Commodity ORM-D
 FORBIDDEN FROM AIR TRANSPORT
Emergency Response Guide No: 126 / 171

TDG

Proper shipping name: Aerosols
UN-No: UN 1950
Packing group: Not applicable
Description: UN 1950, Aerosols, Class 2.2 (8), Re-classed as Consumer Commodity/ Limited Quantity
 FORBIDDEN FROM AIR TRANSPORT

MEX

Not applicable.

ICAO

See IATA

IATA

UN-No: UN 1950
Proper shipping name: Aerosols, non-flammable, containing substances in Class 8, Packing Group II
Hazard Class 2.2
Subsidiary Class 8
Packing group: Not applicable
Description: Aerosols, non-flammable, containing substances in Class 8, Packing Group II, 2.2 (8)
Maximum quantity FORBIDDEN FROM AIR TRANSPORT

IMDG/IMO

Proper Shipping Name Aerosols
Hazard Class 2
Subsidiary Risk: 8
UN-No UN 1950
Packing Group Not applicable
IMDG Page: Not applicable.
Marine Pollutant Not applicable
EmS: F-D, S-U
MFAG: See Guide.
Maximum quantity: See DG List.
Description UN1950, Aerosols, Class 2.2 (8), Limited Quantity

RID

Not applicable.

ADR

Not applicable.

ADN

Not applicable.

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

15. REGULATORY INFORMATION

Chemical Name	PICCS	TSCA	DSL	NDSL	ENCS	CHINA	AICS	ENECS/ ELINCS	South Africa STELs
Sodium hydroxide			X		X	X	X	215-185-5	
n-butane		Present	X		X	X	X	203-448-7	
(2-(2-butoxyethoxy)ethanol) Diethylene glycol monobutyl ether		Present	X		X	X	X	203-961-6	
2-aminoethanol		Present	X		X	X	X	205-483-3	

U.S. Regulations:
Sodium hydroxide - 1310-73-2
NJRTK

Not Listed.

Appearance

None.

n-butane - 106-97-8
NJRTK

Not Listed.

Appearance

None.

(2-(2-butoxyethoxy)ethanol) Diethylene glycol monobutyl ether - 112-34-5
NJRTK

Not Listed.

Appearance

None.

2-aminoethanol - 141-43-5
NJRTK

Not Listed.

Appearance

None.

SARA313

None

Chemical Name
California Prop. 65
Sodium hydroxide - 1310-73-2

Not Listed

n-butane - 106-97-8

Not Listed

(2-(2-butoxyethoxy)ethanol)

Not Listed

*Diethylene glycol monobutyl ether -
112-34-5*
2-aminoethanol - 141-43-5

Not Listed

WHMIS (Canada)
WHMIS Hazard Class

Class E: Corrosive Liquid

MATERIAL SAFETY DATA SHEET

According to US Regulation ANSI Z400.1-2004

16. OTHER INFORMATION
**National Fire
Protection Association
(U.S.A.):**

HMIS (U.S.A.):

Health Hazard	3
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Fire Hazard	2
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Reactivity	0
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PERSONAL PROTECTION	D
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Note: NFPA Aerosol Level: Flammability rated as "1" per NFPA 30B.

Reason for revision: Update or revision of the PSDS.

Additional advice: This product should only be used as directed on the label and for the purpose intended.

Prepared by: Reviewed by Regulatory on 6/12/2009.

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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



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
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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.
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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
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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		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
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

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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.

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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.

MATERIAL SAFETY DATA SHEET

Hip Shot Carpet Spot Remover

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hip Shot Carpet Spot Remover
Product Number: A00173
Product Use: Spot Remover.
Manufacturer/Supplier: Waxie Sanitary Supply
9353 Waxie Way
San Diego, CA 92193-1036
Phone Number: 1-800-995-4466
D.O.T. Emergency Phone: 1-800-255-3924 CHEM TEL
Date of Preparation: August 8, 2010 **Revision #:** 2.0

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS: See Section 15

CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Not a normal route of exposure. Harmful: may cause lung damage if swallowed.
Inhalation: May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

Signs and Symptoms: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

This product is a hazardous chemical as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment See Section 12 for more information.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Propane	74-98-6	1 - 5
Isopropanol	67-63-0	5 - 10
Acetone	67-64-1	1 - 5
Alkyl polyglycosides	68515-73-1 / 110615-47-9	1 - 5
Propylene glycol phenyl ether	770-35-4	1 - 5
Diethylene glycol monobutyl ether	112-34-5	5 - 10
Butane	106-97-8	5 - 10

MATERIAL SAFETY DATA SHEET

Hip Shot Carpet Spot Remover

Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

- Flammability:** Not flammable by OSHA criteria.
- Means of Extinction:**
- Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.
- Unsuitable Extinguishing Media:** Not available.
- Products of Combustion:** May include, and are not limited to: oxides of carbon.
- Explosion Data:**
- Sensitivity to Mechanical Impact:** Not available.
- Sensitivity to Static Discharge:** Not available.
- Protection of Firefighters:** Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Section 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.
- Environmental Precautions:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
- Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for Clean-Up:** Allow gas to dissipate harmlessly into the atmosphere.
- Other Information:** Not available.

MATERIAL SAFETY DATA SHEET

Hip Shot Carpet Spot Remover

Section 7: HANDLING AND STORAGE

Handling:

Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Storage:

Keep out of the reach of children. Keep container in a well-ventilated place. Do not store at temperatures above 49 °C / 120 °F.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
Propane	1000 ppm	1000 ppm
Isopropanol	400 ppm	200 ppm
Acetone	750 ppm	500 ppm
Alkyl polyglycosides	Not available.	Not available.
Propylene glycol phenyl ether	Not available.	Not available.
Diethylene glycol monobutyl ether	Not available.	Not available.
Butane	Not available.	800 ppm

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

HMIS: See Section 15

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear.
Color:	Colorless.
Odour:	Characteristic.
Odour Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid.
pH:	8.5 – 9.5
Viscosity:	Not available.
Freezing Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.

MATERIAL SAFETY DATA SHEET

Hip Shot Carpet Spot Remover

Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Specific Gravity:	0.991 (Concentrate only)
Solubility in Water:	Partial.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	14.6% (US federal/CARB/OTC/LADCO)
VOC content, g/L:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Oxidizers.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Analysis

Ingredient	LD₅₀ (oral)	LC₅₀
Propane	Not available.	658 mg/L 4hr, rat
Isopropanol	4396 mg/kg, rat	72.6 mg/L 4hr, rat
Acetone	5800 mg/kg, rat	Not available.
Alkyl polyglycosides	Not available.	Not available.
Propylene glycol phenyl ether	2830 mg/kg, rat	Not available.
Diethylene glycol monobutyl ether	3384 mg/kg, rat	Not available.
Butane	Not available.	658 mg/L 4hr, rat

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Skin: May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

Inhalation: May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by OSHA criteria.

Carcinogenicity: Not hazardous by OSHA criteria.

MATERIAL SAFETY DATA SHEET

Hip Shot Carpet Spot Remover

Ingredient	Chemical Listed as Carcinogen or Potential Carcinogen *
Propane	Not listed.
Isopropanol	G-A4, I-3
Acetone	G-A4
Alkyl polyglycosides	Not listed.
Propylene glycol phenyl ether	Not listed.
Diethylene glycol monobutyl ether	Not listed.
Butane	Not listed.

* See Section 15 for more information.

Mutagenicity: Not hazardous by OSHA criteria.

Reproductive Effects: Not hazardous by OSHA criteria.

Developmental Effects:

Teratogenicity: Not hazardous by OSHA criteria.

Embryotoxicity: Not hazardous by OSHA criteria.

Respiratory Sensitization: Not hazardous by OSHA criteria.

Skin Sensitization: Not hazardous by OSHA criteria.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Section 14: TRANSPORTATION INFORMATION

DOT Classification

ORM-D

Section 15: REGULATORY INFORMATION

Federal Regulations

US: MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).

SARA Title III

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Propane	Not listed.	Not listed.	Not listed.	Not listed.
Isopropanol	Not listed.	Not listed.	Not listed.	Yes.
Acetone	Not listed.	Not listed.	5,000	313
Alkyl polyglycosides	Not listed.	Not listed.	Not listed.	Not listed.

MATERIAL SAFETY DATA SHEET

Hip Shot Carpet Spot Remover

Propylene glycol phenyl ether	Not listed.	Not listed.	Not listed.	Not listed.
Diethylene glycol monobutyl ether	Not listed.	Not listed.	Not listed.	Not listed.
Butane	Not listed.	Not listed.	Not listed.	Not listed.

Global Inventories

Ingredient

USA TSCA

Propane	Yes.
Isopropanol	Yes.
Acetone	Yes.
Alkyl polyglycosides	Yes.
Propylene glycol phenyl ether	Yes.
Diethylene glycol monobutyl ether	Yes.
Butane	Yes.

HMIS - Hazardous Materials Identification System

Health - 1

Flammability - 2

Physical Hazard - 0

PPE - B

NFPA - National Fire Protection Association:

Health - 1

Fire - 2

Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

Section 16: OTHER INFORMATION

Disclaimer:

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Prepared by: Nexreg Compliance Inc.

Prepared for: Waxie Sanitary Supply

Phone Number: 1-800-995-4466

MATERIAL SAFETY DATA SHEET

1303
06 00

DATE OF PREPARATION
Oct 21, 2011

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

1303

PRODUCT NAME

KRYLON® Crystal Clear Acrylic Spray Coating

MANUFACTURER'S NAME

Krylon Products Group
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 247-3268 www.krylon.com
Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
14	74-98-6	Propane		
		ACGIH TLV	2500 PPM	760 mm
		OSHA PEL	1000 PPM	
13	106-97-8	Butane		
		ACGIH TLV	800 PPM	760 mm
		OSHA PEL	800 PPM	
17	108-88-3	Toluene		
		ACGIH TLV	20 PPM	22 mm
		OSHA PEL	100 ppm (Skin)	
		OSHA PEL	150 ppm (Skin) STEL	
3	64742-94-5	Medium Aromatic Hydrocarbons		
		ACGIH TLV	Not Available	0.12 mm
		OSHA PEL	Not Available	
0.4	91-20-3	Naphthalene		
		ACGIH TLV	10 PPM	1 mm
		ACGIH TLV	15 PPM STEL	
		OSHA PEL	10 PPM	
		OSHA PEL	15 PPM STEL	
41	67-64-1	Acetone		
		ACGIH TLV	500 PPM	180 mm
		ACGIH TLV	750 PPM STEL	
		OSHA PEL	1000 PPM	
4	763-69-9	Ethyl 3-Ethoxypropionate		
		ACGIH TLV	Not Available	1.11 mm
		OSHA PEL	Not Available	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

HMIS Codes

Health	2*
Flammability	4
Reactivity	0

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

Prolonged overexposure to hazardous ingredients in Section 2 may cause adverse chronic effects to the following organs or systems:

- the liver
- the urinary system
- the cardiovascular system
- the reproductive system

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and laundry before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	EXTINGUISHING MEDIA
Propellant < 0 °F	0.8	12.8	Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120°F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

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

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.07 lb/gal	727 g/l
SPECIFIC GRAVITY	0.73	
BOILING POINT	<0 - 415 °F	<-18 - 212 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	94%	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
	Volatile Weight 50.64%	Less Water and Federally Exempt Solvents

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable**CONDITIONS TO AVOID**

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
74-98-6	Propane	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
106-97-8	Butane	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-88-3	Toluene	LC50 RAT	4HR	4000 ppm
		LD50 RAT		5000 mg/kg
64742-94-5	Medium Aromatic Hydrocarbons	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
91-20-3	Naphthalene	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
67-64-1	Acetone	LC50 RAT	4HR	Not Available
		LD50 RAT		5800 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate	LC50 RAT	4HR	Not Available
		LD50 RAT		5000 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

May be classed as Consumer Commodity, ORM-D

UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)

May be classed as Consumer Commodity, ORM-D

UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO

May be shipped as Limited Quantity

UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U, ADR (D)

IATA/ICAO

UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

SECTION 15 — REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	17	
91-20-3	Naphthalene	0.3	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

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

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH WHITE LITHIUM GREASE****MSDS No.: GR018****I. Basic Information:****Manufacturer:** RADIATOR SPECIALTY COMPANY**Address:** 600 RADIATOR ROAD**City, ST Zip:** INDIAN TRAIL, NC 28079**Country:** USA**Contact:** Robert Geer**Information Telephone Number:** 704-684--181 1**Emergency Contact:** RMPDC (877-740-5015)**Emergency Telephone Number:** 303-623-5716**Emergency Restrictions:****Product Name:** LIQUID WRENCH WHITE LITHIUM GREASE**MSDS No.:** GR018**Issue Date:** 01/14/2014**Supersedes Date:** Not Available**II. Hazards Identification:****EMERGENCY OVERVIEW**

CAUTION: HARMFUL IF SWALLOWED. EYE AND SKIN IRRITANT

OSHA Regulatory Status

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

Potential Health Effects**Route(s) of Entry:**

Eyes, skin, inhalation and ingestion

Health Hazards (Acute and Chronic):

Exposure to vapors generated at high temperatures may cause respiratory irritation.

Signs and Symptoms:

None known

Medical Conditions Generally Aggravated by Exposure:

None known

Other Health Warnings:

Vomiting and subsequent aspiration of the product into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

Potential Environmental Effects

Not Available

III. Composition/Information on Ingredients:

Chemical Name	CAS No.	% Range	Trade Secret
Naphthenic Petroleum Distillate	64742-52-5	60.0 - 100.0	
Titanium dioxide	13463-67-7	1.0 - 5.0	
Zinc oxide, fume	13141-3-2	1.0 - 5.0	

IV. First Aid Measures:**Emergency and First Aid Procedures:**

Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.

Skin Contact: Wash skin with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Remove and isolate contaminated clothing. Launder contaminated clothing before reuse.

Inhalation: Move victim to fresh air. If breathing becomes difficult, get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately. Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

MSDS - Material Safety Data Sheet

Product Name: LIQUID WRENCH WHITE LITHIUM GREASE

MSDS No.: GR018

Note to Physicians:

N/D

V. Fire Fighting Measures:

Suitable Extinguishing Media:

Carbon dioxide, Foam, Water fog and Dry Chemical

Unsuitable Extinguishing Media:

Class A type extinguishers.

Products of Combustion:

Oxides of: Carbon

Protection of Firefighters:

Wear self-contained positive pressure breathing apparatus and protective clothes.

VI. Accidental Release Measures:

Personal Precautions:

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental Precautions:

Keep product out of sewers and watercourses.

Methods for Containment:

Will not flow.

Methods for Cleanup:

Using a scoop, place contaminated material into an approved chemical waste container.

Other Information:

Notify authorities if product has entered or may enter sewer, watercourses or extensive land areas.

VII. Handling and Storage:

Handling Precautions:

Ventilate well, avoid breathing vapors. Keep away from heat, sparks and open flame. Slip hazard. Avoid spilling, skin and eye contact. Keep away from children and animals. Keep lid closed when not in use.

Storage Precautions:

Store separate from strong acids and oxidizers. Keep away from heat, spark and open flame.

VIII. Exposure Controls/Personal Protection:

Chemical Name	OSHA PEL	ACGIH TLV	Other Limits
Naphthenic Petroleum Distillate	5 mg/m ³	5 mg/m ³	Not Available
Zinc oxide, fume	5 mg/m ³	5 mg/m ³	Not Available
Titanium dioxide	15 mg/m ³	10 mg/m ³	Not Available

Engineering Controls:

See Section above for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

For prolonged exposure wear protective goggles, gloves, and apron.

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH WHITE LITHIUM GREASE****MSDS No.: GR018****IX. Physical and Chemical Properties:****Boiling Point:** N/D**Boiling Range:** N/D**Solubility In Water:** Insoluble in water**Flash Point:** 435°F**Odor Threshold:** N/D**Vapor Density (AIR = 1):** > 5**pH Range:** N/A**Decomposition Temp:** N/D**Lower Explosive Limit:** N/D**Specific Gravity (H2O = 1):** 0.89**Other Information:** N/D**Melting Point:** N/D**Freezing Point:** N/D**Evaporation Rate (Butyl Acetate = 1):** < 0.01**Flash Point Method:** COC**Appearance and Odor:** White grease with mild petroleum odor**Vapor Pressure (mm Hg.):** < 0.1 mmHg @ 20°C**Partition Coefficient:** N/C**Auto-Ignition Temp:** N/D**Upper Explosive Limit:** N/D**X. Stability and Reactivity:****Stability:**

Normally Stable

Conditions to Avoid:

Avoid contact with acids and oxidizing substances

Incompatible Materials:

Acids and oxidizers

Hazardous Decomposition Products:

Oxides of carbon

Possibility of Hazardous Reactions:

Will not occur

XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in a recycling center when empty. Before offering for recycling, empty the can by using the product according to the label. Do not dump into sewers, on the ground, or into any body of water. Dispose of unused product in accordance with all local, state government and federal laws and regulations

XIV. Transport Information:**Shipping Name:** Not DOT Regulated**DOT Hazard Class:** Not Regula**UN/NA#:** Not Available**Transportation Information:****DOT Subsidiary Hazard Class:** Not Available**Packing Group:** Not Available

MSDS - Material Safety Data Sheet**Product Name: LIQUID WRENCH WHITE LITHIUM GREASE****MSDS No.: GR018**

DOT Shipping Name: Not DOT regulated.

DOT Hazard Class: None

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping purposes.

ICAO/IATA (US): Not regulated

International:

ICAO/IATA: Not regulated

IMDG: Not regulated

XV. Regulatory Information:

Sara 313 Reportable Chemicals:

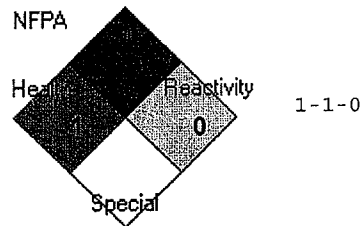
Zinc Oxide 1314-13-2 (Zinc compound)

USA TSCA: All components of this material are either exempt or listed on the US TSCA Inventory.

State RTK Chemicals:

Zinc Oxide 1314-13-2

Titanium Dioxide 13463-67-7

XVI. Other Information:**Chemical State:** ☒ Liquid ☐ Gas ☐ Solid**Chemical Type:** ☐ Pure ☒ Mixture**Hazard Category:**☒ Acute ☐ Chronic ☒ Fire ☐ Pressure ☐ Reactive**Additional Manufacturer Warnings:**

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye. KEEP AWAY FROM CHILDREN AND ANIMALS!

N/E: Not Established

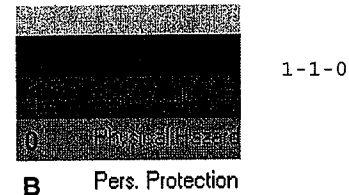
N/D: Not Determined

N/A: Not Applicable

N/AV: Not Available

Additional Product Information:

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.



Section 1. Product and Company Identification

Product Name	LYSOL® BRAND FOAMING DISINFECTANT BASIN, TUB & TILE CLEANER II, ALL SCENTS (AEROSOL)	MSDS#	Not available.
Product Description	Aerosol foaming disinfectant cleaner for use in the bathroom to clean the basin, tub and tile.	Validation Date	3/18/2004
Manufacturer	Reckitt Benckiser North America, Inc. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, N.J. 07054-0225	Print Date	3/23/2004
Product Identifier	EPA Registration No. 777-71	In case of Emergency:	Telephone: 800-228-4722
Item Number	358486	Transportation Emergencies:	Chemtrec: 1-800-424-9300 (U.S. & Canada) Outside the U.S & Canada (North America), call: 703-527-3887
Formula Number	432-036 (F/F #358486) Country Scent; 794-103 (F/F #376360) Marine Scent; 717-192 (F/F #374098) Summer Breeze.		
UPC Number	19200-74531 (17 oz.), -74532 (21.25 oz.) Country Scent; 19200-02530 (17 oz.), -02538 (21.25 oz.), -02569 (24 oz.) Marine Scent; 19200-75948 (24 oz.) Summer Breeze.		

Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	<6.0	Not available.
2) ISOBUTANE	75-28-5	7.0	Not available.

Section 3. Hazards Identification

Emergency Overview	CAUTION: MAY CAUSE EYE IRRITATION. AVOID CONTACT WITH EYES AND SKIN. KEEP OUT OF REACH OF CHILDREN Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F (55°C) or in sun or discarding can in fire or incinerator may cause bursting.
---------------------------	---

Section 4. First Aid Measures

Eye Contact	Immediately rinse eyes with water, remove any contact lenses, and continue rinsing eyes for fifteen minutes. Call a doctor or poison control center if symptoms persist.
Skin Contact	In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.
Inhalation	None required under recommended use conditions. Remove to fresh air.
Ingestion	Rinse mouth and drink a glass of water. If symptoms persist, consult a physician. NEVER give an unconscious person anything to ingest.

Section 5. Fire and Explosion Data

Flammability	See Section 14 for any Shipping Classifications.
Flash Point	Not applicable. Aerosol flame extension less than 18 inches or 45 cm.
Explosive Limits in Air	Not available.
Products of Combustion	Not available.
Fire and Explosion Hazards	CONTENTS UNDER PRESSURE. Do not use or store near hear or open flame. Do not puncture or incinerate. Exposure to temperatures above 130° F (55°C) may cause bursting.
Fire Fighting Media and Instructions	Use water spray, foam, dry chemical or carbon dioxide, as suitable for surrounding fire.
Special Fire Fighting Instructions	Wear self-contained breathing apparatus and protective clothing 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 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: Eliminate all sources of ignition and ventilate the area with equipment rated for use in flammable environments. Collect liquid and store in metal containers for later disposal according to local, state or federal regulations.
-------------------------	--

Section 7. Handling and Storage

Handling and Storage	CAUTION: MAY CAUSE EYE IRRITATION. AVOID CONTACT WITH EYES AND SKIN. KEEP OUT OF REACH OF CHILDREN Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F (55°C) or in sun or discarding can in fire or incinerator may cause bursting. Store in original container in areas inaccessible to small children. Do not reuse empty container. Replace cap and discard in trash. It is a violation of federal law to use this product in a manner inconsistent with its labeling.
-----------------------------	--

Section 8. Exposure Controls/Personal Protection

Ventilation Requirements	None required under normal use conditions.
Eye Protection	None required under normal use conditions. Emergency responders should wear full eye and face protection.
Skin Protection	None required under normal use conditions. Emergency responders should wear impermeable gloves.
Respiratory Protection	None required.
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	Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

Section 9. Physical and Chemical Properties

Description	Liquid. White foam when sprayed.	Odor	Citrus/floral/amber odor (Country). Green aromatic fougere (Marine). Fruity/floral (Summer Breeze).
pH	12.4 [Basic.]	Color	Light straw, Clear liquid. White foam when sprayed as an aerosol.
Boiling/Condensation Point	Not available.		
Specific Gravity	1.03 (Water = 1)		
Vapor Pressure	34-40 PSIG @ 70°F		
Vapor Density	>1 (concentrate)		
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	Exposure to intense heat.
Incompatibility with Various Substances	Oxidizing agents and acids
Hazardous Decomposition Products	Oxides of nitrogen and/or oxides of carbon and other unidentified organic compounds may be formed during thermal decomposition.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Exposure effects

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

Section 12. Ecological Information

Ecotoxicity Not available.

Section 13. Disposal Considerations

Waste Disposal Small amounts of waste: Wipe up with a wet paper towel and discard absorbed material in trash collection.

For large amounts of waste product: Contain and collect liquid for evaluation and disposal according to local, state and federal regulations.

Section 14. Transport Information

DOT Classification ORM-D

Proper Shipping Name Consumer Commodity.

DOT Identification Number UN 1950

Packing Group Not applicable to Class 2 materials.

Maritime Transportation Not applicable.

**Hazardous Substances
Reportable Quantity** Not applicable.

**Special Provisions for
Transport** Not applicable.

TDG Classification Not applicable.

ADR Classification Not applicable.

IMDG Classification Aerosols, non-flammable, class 2.2, UN1950 - Limited Quantity.

IATA Classification DO NOT SHIP! - Packaging does not meet IATA requirements.

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 5.6 %

California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water & Toxic Enforcement Act:
None

Other Classifications **WHMIS (Canada)** CLASS E: Corrosive liquid.

**LYSOL® BRAND FOAMING DISINFECTANT
BASIN, TUB & TILE CLEANER II, ALL
SCENTS (AEROSOL)**

Page Number: 5

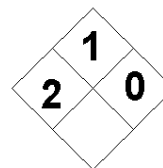
Section 16. Other Information

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	3
Reactivity	0
Personal Protection	B

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

Health



Fire Hazard

Reactivity

Specific hazard

NFPA Aerosol Level

1, per NFPA 30B

Validated by Product Safety on 3/18/2004.

Printed 3/23/2004.

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.

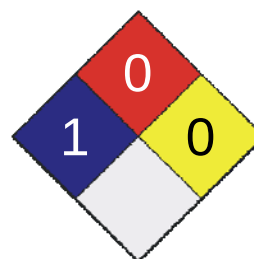
1. Product and Company Identification

Product Name Lysol Brand® (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents
UPC CODES Refer to Section 16
CAS # Mixture
Product use Disinfectant
Distributed by Reckitt Benckiser

Morris Corporate Center IV
 399 Interpace Parkway
 P.O. Box 225
 Parsippany, NJ 07054-0225
 In Case of Emergency: 1-800-228-4722
 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

This product is regulated by the US EPA as a disinfectant.

PRECAUTIONARY STATEMENTS: Hazards to humans and domestic animals.

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

Eyes

May irritate eye.

Skin

Non-irritating to the skin.

Inhalation

None expected.

Ingestion

Not orally toxic.

Target organs

Blood. Eyes. Liver. 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.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Ethanol	64-17-5	2.5 - 10
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	Not Applicable	0.1 - 1

4. First Aid Measures

First aid procedures

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	In keeping with good hygienic practices, wash exposed areas thoroughly with soap and water.
Inhalation	None required under recommended use conditions. Remove to fresh air.
Ingestion	Rinse mouth with water. Contact a physician or poison control center if symptoms develop. NEVER give an unconscious person anything to ingest.
Notes to physician	Symptoms may be delayed.
General advice	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.

5. Fire Fighting Measures

Flammable properties	Not flammable by OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Water spray. Foam. Dry chemical.
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. Oxides of nitrogen.
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	Do not allow product to enter sewer or waterways.
Methods for cleaning up	Remove sources of ignition. Never return spills in original containers for re-use.
Other information	Pick up and discard towel.

7. Handling and Storage

Handling	CAUTION May cause eye irritation. Avoid contact with eyes. Wash hands after handling and before eating. Use good industrial hygiene practices in handling this material. DO NOT PUSH FINGER THROUGH OPENING. Use according to package label instructions.
Storage	Store in original container in a cool, secure area inaccessible to children and pets. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials. Food contact surfaces must be rinsed with potable water. Unplug small appliances before cleaning. Not recommended for polished or bare wood floors. Not intended for personal hygiene. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	ACGIH-TLV Not established OSHA-PEL Not established
Ethanol	ACGIH-TLV TWA: 1000 ppm STEL: 1000 ppm OSHA-PEL TWA: 1000 ppm

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Avoid contact with eyes.
 Emergency responders should wear full eye and face protection.

Hand protection

Wash hands after use.
 Emergency responders should wear impermeable gloves.

Skin and body protection

As required by employer code.
 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 saturated on wipe
Color	clear liquid
Form	Pre-moistened towelette.
Odor	Various
Odor threshold	Not available
Physical state	Not available
pH	6 - 8.5 (Liquid)
Freezing point	Not available
Pour point	Not available
Boiling point	Not available
Flash point	> 200 °F (> 93.33 °C) (Liquid) Tagliabue
Evaporation rate	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	0.97 (Liquid)
Octanol/water coefficient	Not available
Solubility (H2O)	Wipe is not soluble
Auto-ignition temperature	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	DO NOT MIX WITH BLEACH or use in conjunction with other household products. Heat, open flames, static discharge, sparks and other ignition sources.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	Not available
Ethanol	31623 ppm rat

Component analysis - Oral LD50

Ingredient(s)	LD50
Alkyl (50%C14, 40%C12, 10%C16) dimethyl benzyl ammonium chlorides	426 mg/kg rat
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat

Effects of acute exposure

Eye May irritate eye.

Skin Non-irritating to the skin.

Inhalation None expected.

Ingestion Not orally toxic.

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.

ACGIH - Threshold Limit Values - Carcinogens

Ethanol 64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

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.

Synergistic Materials Not available

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data

Ethanol 64-17-5 96 Hr LC50 Oncorhynchus mykiss: 12.0-16.0 ml/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400-15100 mg/L [flow-through]

Ecotoxicity - Water Flea Data

Ethanol 64-17-5 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

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

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Do not reuse empty container. Rinse container and offer for recycling where facilities exist. Review federal, state/provincial, and local government requirements prior to disposal. Discard with solid waste.
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

US Federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.
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Product Registration: Registered with EPA, EPA Reg. No. 777-68

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 - No
Pressure Hazard - No
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

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. - Massachusetts - Right To Know List

Ethanol	64-17-5	Teratogen
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U.S. - Minnesota - Hazardous Substance List

Ethanol	64-17-5	Present
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U.S. - New Jersey - Right to Know Hazardous Substance List

Ethanol	64-17-5	sn 0844
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U.S. - Pennsylvania - RTK (Right to Know) List

Ethanol	64-17-5	Present
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U.S. - Rhode Island - Hazardous Substance List

Ethanol	64-17-5	Toxic; Flammable
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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	19200-81145-3 - LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents - 35 ct - Citrus - 0059368 19200-77182-5 - LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents - 80 ct - Citrus - 0059368 19200-81360-0 - LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents - 2x35 ct. - Citrus - 0059368 19200-80296-3 - LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents - 2x80 ct - Citrus - 0059368 19200-78849-6- LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents - 110 ct - Citrus - 0059368 19200-81146-0 - LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents - 35 ct - Spring Waterfall - 0059302 19200-77925-8 - LYSOL® Brand (Kills 99.9% of Viruses & Bacteria) Disinfecting Wipes, All Scents - 80 ct - Spring Waterfall - 0059302
Issue date	09-Jul-2010
Effective date	15-Jun-2010
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.

MATERIAL SAFETY DATA SHEET

Date-Issued: 09/24/2003

MSDS Ref. No: 100113

Date-Revised: 09/24/2003

Revision No: New MSDS

Miracle-Gro® All Purpose Plant Food 15-30-15

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ~~Miracle-Gro® All Purpose Plant Food 15-30-15~~

MANUFACTURER

The Scotts Company
Earthgro-Hypox-Miracle Gro
Scotts-Scotts Lawn Service-Scotts Sierra-Swiss Farms
14111 Scottslawn Road
Marysville, OH 43041

PN: S9958

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC (U.S.): (800) 424-9300
International: 1-703-527-3887
Emergency Phone: 1-937-644-0011

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Urea	57-13-6	None	None
Ammonium Phosphate	7722-76-1	None	None
Urea Phosphate	4861-19-2	None	None
Potassium Chloride	7447-40-7	None	None
Boric Acid	10043-35-3	None	None
Copper Sulfate	7758-98-7	None	1 mg (Cu)/m3
Iron EDTA	15708-41-5	None	None
Manganese EDTA	15375-84-5	None	None
Sodium Molybdate	7631-95-0	5 mg/m3	5 mg/m3
Zinc Sulfate	7733-02-0	None	None

Dust

15 mg/m3

3 mg/m3

COMMENTS: The ACGIH Threshold Limit Values (TLV) for nuisance (inert) dusts containing < 1% crystalline silica and no asbestos are: 10 mg/m3 inhalable particulates and 3 mg/m3 respirable particulate. The OSHA TLV is 15 mg/m3 total dust, 5 mg/m3 respirable fraction. Material exposure limits are for airborne 8-hour time-weighted averages and apply only to occupational exposures.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Follow precautionary product label information.

General Considerations: Avoid breathing dusts or mists by using adequate ventilation. Reduce material contact by wearing gloves when handling material for extended periods or by washing hands after use. Minimize material contact during application of lawn/garden products by wearing long pants, shoes, and socks. Avoid eye contact with any foreign body and do not ingest product. Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

EYES: May cause slight, temporary irritation as a foreign body in the eye.

SKIN: Repeated skin contact may dry skin resulting in skin irritation in sensitive individuals.

INGESTION: May result in temporary nausea or diarrhea.

INHALATION: Inhalation of dusts or aerosols may aggravate asthma.

MEDICAL CONDITIONS AGGRAVATED: Skin abrasions, sores, or other pre-existing skin conditions. Inhalation of dust may aggravate asthma.

1. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

SKIN: If on skin or clothing, 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.

INGESTION: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Never give anything by mouth to an unconscious person.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog or spray.

EXPLOSION HAZARDS: Explosive conditions may exist when a high airborne concentration of fertilizer or organic material occurs in an enclosed area.

FIRE FIGHTING PROCEDURES: Use self-contained air supply.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire, fertilizer products may produce ammonia and toxic oxides of carbon, nitrogen, potassium, phosphorous, and/or sulfur.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Use good housekeeping practices. Sweep up spills. As a general practice, avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove to approved landfill. See label for specific disposal procedures.

7. HANDLING AND STORAGE

HANDLING: See label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Keep out of lakes, streams or ponds, **KEEP OUT OF REACH OF CHILDREN**.

STORAGE: See label. **KEEP OUT OF REACH OF CHILDREN**. Avoid container breakage. Store in cool, dry area in closed container or package. Keep away from feed or foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: See label. Protective eye wear is typically not required for normal product use.

SKIN: See label. No special protective clothing is necessary under normal use conditions. Gardening gloves are suggested for repeated handling of lawn care products. Applicators should wear long-sleeved shirt, long pants, shoes, and socks.

RESPIRATORY: See label. No special respiratory protection is required under normal use conditions. However, if operating conditions create high airborne concentrations of product, a dust mask, or other appropriate respiratory protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

APPEARANCE: Granular

COLOR: Blue

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Protect from moisture and heat.

HAZARDOUS DECOMPOSITION PRODUCTS: Urea and methylene urea nitrogen sources can generate ammonia in a fire. Also toxic oxides of nitrogen, phosphorus, chlorine, carbon, and potassium may form.

INCOMPATIBLE MATERIALS: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE

EYES: Not an eye irritant (rabbit) for a similar formulation.

DERMAL LD₅₀: >2,000 mg/kg (rabbit) for a similar formulation.

ORAL LD₅₀: >5,000 mg/kg (rat) for a similar formulation.

SKIN EFFECTS: Primary Dermal Irritation (rabbit): Non-irritating and non-staining for a similar formulation.

CARCINOGENICITY:

CARCINOGENICITY COMMENTS: IARC: No; NTP: No; OSHA: No

GENERAL COMMENTS: Results of acute toxicity studies conducted on a comparable formulation according to Consumer Product Safety Commission testing methods (Oral; 15003.(i), Dermal (1500.41), Eye Irritation (1500.42), and Primary Skin Irritation (1500.41) indicate this product is "Non-Hazardous" as defined by 29 CFR, Part 1910.1200.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: See label. Keep out of lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in normal waste disposal. Do not reuse empty container. See label for specific product disposal recommendations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Not DOT regulated.

SPECIAL SHIPPING NOTES: The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION

GENERAL COMMENTS: Contact local authorities for proper disposal of large quantities of unused product.

16. OTHER INFORMATION

REVISION SUMMARY New MSDS

NFPA CODES

HEALTH: 1 FIRE: 0 REACTIVITY: 0

MANUFACTURER DISCLAIMER: The information contained herein is, to the best of the Manufacturer's (see Section 1) knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and the Manufacturer shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, the Manufacturer shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

ADDITIONAL MSDS INFORMATION: NFPA Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

GENERAL STATEMENTS: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

S

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



RAID® HOUSE & GARDEN BUG KILLER (REG. NO. 20796 P.C.P. ACT)

Version 1.

Print Date 03/19/2010

Revision Date 01/26/2010

MSDS Number 350000004252

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Trade name : RAID® HOUSE & GARDEN BUG KILLER (REG. NO. 20796 P.C.P. ACT)

Use of the Substance/Mixture : Insecticide

Company : S.C. Johnson and Son, Limited
1 Webster Street
Brantford ON N3T 5R1

Emergency telephone : 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

Emergency Overview

Appearance / Odor : opaque / aerosol / characteristic

Immediate Concerns

Caution
Contents under pressure. Do not puncture or incinerate. Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst. Keep away from heat, sparks and flame. Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated breathing of vapor.

Potential Health Effects

Exposure routes : Eye, Skin, Inhalation, Ingestion.

Eyes : May cause:
Mild eye irritation

Skin : Prolonged or repeated contact may dry skin and cause irritation.

Inhalation : May be harmful if inhaled.

Ingestion : None known.

Aggravated Medical Condition : None known.

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Water	7732-18-5	60.00 - 100.00
Isobutane	75-28-5	10.00 - 30.00
Propane	74-98-6	5.00 - 10.00
Butane	106-97-8	1.00 - 5.00
Piperonyl butoxide	51-03-6	1.00 - 5.00
Allethrin	584-79-2	0.10 - 1.00
Tetramethrin	7696-12-0	0.01 - 0.10

4. FIRST AID MEASURES

- Eye contact : Flush immediately with plenty of water for at least 15 to 20 minutes. Get medical attention if irritation develops and persists.
- Skin contact : Wash off with soap and water. Get medical attention if irritation develops and persists.
- Inhalation : Remove to fresh air. If breathing is affected, get medical attention.
- Ingestion : Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol foam, carbon dioxide, dry chemical, water fog
- Specific hazards during fire fighting : Aerosol Product - Containers may rocket or explode in heat of fire.
- Further information : Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. Fight fire from maximum distance or protected area.
- Flash point : < 20 °F
Method: Tag Closed Cup (TCC)
Note: Propellant
- Lower explosion limit : Note: no data available

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Upper explosion limit : Note: no data available

NFPA Classification : NFPA Level 1 Aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Remove all sources of ignition.
Use personal protective equipment.

Environmental precautions : Use appropriate containment to avoid environmental contamination.

Methods for cleaning up : Soak up with inert absorbent material.
Dike large spills.
Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Advice on safe handling : Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Do not puncture or incinerate.
Avoid breathing vapors, mist or gas.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers : Keep in a dry, cool and well-ventilated place.
Do not freeze.
Do not store at temperatures above 120 Deg. F (50 Deg C), as container may burst.

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Butane	106-97-8	-	1,000 ppm	-	ACGIH TWA

Personal protective equipment

Respiratory protection

Industrial setting : Substantial amounts of mist/vapors can be controlled with local exhaust ventilation or respiratory protection.

Household setting : No personal respiratory protective equipment normally required.

Hand protection

Industrial setting : For prolonged or repeated contact use protective gloves.

Household setting : not required under normal use

Eye protection

Industrial setting : If prolonged or repeated contact is possible:
Safety glasses with side-shields

Household setting : No special requirements.

Hygiene measures : Use only with adequate ventilation. Wash thoroughly after handling. Wear suitable protective clothing. Keep away from food, drink and animal feedingstuffs.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: aerosol
Color	: opaque
Odor	: characteristic
pH	: no data available
Boiling point	: no data available
Freezing point	: no data available
Flash point	: < 20 °F Method: Tag Closed Cup (TCC) Propellant
Evaporation rate	: no data available
Autoignition temperature	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: no data available
Density	: 0.81 g/cm3
Water solubility	: soluble
Partition coefficient: n-octanol/water	: no data available

10. STABILITY AND REACTIVITY

Conditions to avoid	: Heat, flames and sparks.
Materials to avoid	: Do not mix with oxidizing agents.
Hazardous decomposition products	: Thermal decomposition can lead to release of irritating gases and vapours.
Hazardous reactions	: Stable

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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50
estimated
> 5,000 mg/kg

Acute inhalation toxicity : LC50
estimated
6.7 mg/l

Acute dermal toxicity : LD50
estimated
> 2,000 mg/kg

Chronic effects
Carcinogenicity : no data available

Mutagenicity : no data available

Reproductive effects : no data available

Teratogenicity : no data available

Sensitisation : Substance is not a sensitizer.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Industrial setting : Observe all applicable Federal, Provincial and State regulations and Local/Municipal ordinances regarding disposal.

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

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14. TRANSPORT INFORMATION

Land transport

▪ U.S. DOT and Canadian TDG Surface Transportation:

UN-Number 1950
Proper shipping name Aerosols, flammable
Class: 2.1
Packaging group: None.

Note: SC Johnson ships this product as Consumer Commodity ORM-D (non-bulk packages)

Sea transport

▪ IMDG:

Class: 2.1
Packaging group: None.
Proper shipping name Aerosols, flammable
UN-Number: 1950

Note: SC Johnson ships this product as "Limited Quantity" when the container quantity value is 1 Liter or less.

Air transport

▪ ICAO/IATA:

Class: 2.1
Packaging group: None.
Proper shipping name Aerosols, flammable
UN/ID No.: UN 1950

Note: SC Johnson typically does not ship products via air, therefore it has not been determined if the product container meets current IATA/ICAO package criteria. Refer to IATA/ICAO Dangerous Goods Regulations for detailed instructions when shipping this item by air.

15. REGULATORY INFORMATION

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

Canada Regulations : This product has been classified in accordance with hazard

Material Safety Data Sheet

according to ANSI Z400.1- 2004 and 29 CFR 1910.1200



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criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

16. OTHER INFORMATION

HMIS Ratings

Health	1
Flammability	4
Reactivity	0

NFPA Ratings

Health	1
Fire	4
Reactivity	0
Special	

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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MATERIAL SAFETY DATA SHEET

Section I

Manufacturer's Name: Schultz Company
Address: 11730 Northline Industrial Drive
City, State, Zip Code: St. Louis, Missouri 63043
Telephone Number: 314/567-4545
Trade Name: "Schultz-Instant"® Liquid Plant Food

Section II - Hazardous Ingredients

Potassium Nitrate - This is a fertilizer and is not intended for animal or human consumption.

Section III - Physical and Chemical Data

Boiling Point - 100° C
VAP Press - Nil
Soluble in Water - Yes
Composition - Urea, Ammonium and Potassium Phosphates,
Potassium Nitrate, Dye, Water
Sp. Gravity - 1.25
Appearance and Odor - Dark green suspension
Odorless

Section IV - Health Hazard Data

Potassium Nitrate - Hazardous to animals and humans if ingested. Induce vomiting. Get medical help if more than $\frac{1}{2}$ teaspoonful is ingested.

Section V - Spill or Leak Procedures

Same as for common table salt.

Section VI - Waste Disposal

Causes eutrophication. Do not empty into sewers or waterways. Use ordinary landfill disposal sites.

Section VII - Additional Information

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material Name: Static Guard Antistatic Spray
Revision Date: May 6 2013
CAS #: Mixture
Product Use: Anti-static Spray
Company Information: B&G Foods, Inc.
Four Gatehall Drive, Suite 110
Parsippany, NJ 07054
973 401 6500
Contact Name: William H. Wright, EVP QA, R&D
(PHONE EXTENSION) 6414

2. Hazards Identification

Emergency Overview: CONTENTS UNDER PRESSURE
EXTREMELY FLAMMABLE. Will be easily ignited by heat, spark or flames
Contact with eyes may cause irritation.

Potential short term health effects

Eyes	Contact with eyes may cause irritation. Health injuries are not known or expected under normal use.
Skin	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use. Intentional misuse by concentrating and inhaling the product can be harmful or fatal.
Ingestion	Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Health injuries are not known or expected under normal use.
Target Organs	Central Nervous System. Eyes. Respiratory system. Skin.
Chronic Effects	Conjunctiva. May cause central nervous system disorder (e.g. narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.
Main Symptoms	Conjunctivitis. Rash. Irritation. De-fatting of the skin. Narcosis. Behavioral changes. Decrease in motor functions.

3. Composition / Information on Ingredients

Components	CAS#	Percent
ALCOHOL DENATURED	64-17-5	< 80
Isobutane	75-28-5	< 10
Hydrofluorocarbon 152A	75-37-6	< 20
Propane	74-98-6	< 2.5

Composition Comments: This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA

4. First Aid Measures

First Aid

Eye Contact	Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops or persists.
Inhalation	Move to fresh air. Call 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 to the proper respiratory medical device. If ingestion of a large amount does occur, seek medical attention.

Notes to Physician: Symptoms may be delayed

General Advice: Ensure that medical personnel are aware of the material(s) involved and take precaution to protect themselves. Call physician if symptoms develop or persist. If you feel unwell, seek medical advice (show the label where possible)

5. Fire Fighting Measures

Unusual fire & explosion hazards	Vapor or gas may spread to distant ignition sources and flash back. Run off to sewer may cause fire or explosion hazard. Containers may explode when heated.
Suitable extinguishing media	Small fires: Dry chemical, CO ₂ , water spray or regular foam. Large fires: Water spray, fog or regular foam.
Firefighting equipment/instructions	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand

Material Name: Static Guard Antistatic Spray MSDS

MSDS US

Date of Revision: May 6 2013

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Special protective equipment for fire fighters	breathing apparatus, protective clothing and face mask. Move container from fire area, if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in flame. For massive fire, use unmanned hose holders or monitor nozzles, if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire.
Specific methods	Structural firefighter's protective clothing will only provide limited protection.
Flash Point	In the event of fire and/or explosion do not breathe fumes.
Auto ignition temperature	>-58 °F(>50° C) Propellant 685.4 °F (362.8 °C) estimated
6. Accidental Release Measures	
Containment Procedures	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material where this is possible.
Personal precautions	Ventilate closed spaces before entering. 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 out of low areas. Stay up wind.
Methods for cleaning up	Large spills: Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non combustible material and transfer to containers for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.
7. Handling and Storage	
Handling	Do not handle or store near an open flame, heat or other sources of ignition. Vapors may form explosive mixtures with air. All equipment used when handling the product must be grounded. Avoid contact with skin and eyes. Keep away from sources of ignition – No smoking. May be ignited by open flame. Do not breathe gas/fumes/vapor/spray.
Storage	Do not handle or store near an open flame, heat or other sources of ignition. Store in cool place. Keep in a well ventilated place. This material can accumulate static charge, which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Use care in handling/storage. Keep the container dry. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Level 2 Aerosol
8. Exposure control / Personal Protection	
Personal Protective Equipment	
Respiratory protection	No personal respiratory protective equipment normally required. Applicable for industrial setting only. When workers are facing concentrations over the exposure limit they must use appropriate certified respirators.
Hand protection	Not normally needed Applicable for industrial setting only. Protective gloves.
Eye Protection	Avoid contact with eyes Applicable for industrial settings only. Wear chemical goggles.
Skin and body protection	Not normally needed. Applicable for industrial setting only. Use personal protective equipment as required.
Engineering measure to reduce exposure	Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits. Use explosion proof equipment if high dust/air concentrations are possible. Use explosion proof ventilation equipment
Hygiene measures	Avoid contact with eyes. When using do not smoke. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.
9. Physical & Chemical Properties	
Boiling Point	>1.04 °F (>-17.2 °C)
Flammability	Not available
Form	Aerosol
Percent Volatile	90.6097% estimated
Vapor Pressure	47 – 67 psi @70 °F (21.1 °C)
VOC	79.506%
Material Name: Static Guard Antistatic Spray MSDS	

MSDS US

10. Chemical Stability & Reactivity Information

Stability Risk of explosion. Risk of ignition.
Incompatibility Acids, Amines, Isocyanates, Strong Oxidizing agents

11. Toxicological information

Toxicology data for the preparation

Local effects Contact may irradiate or burn eyes.

Carcinogenicity

US ACGIH Threshold Limit Values: A4 carcinogen

ALCOHOL DENAT. 64-17-5 Not classifiable as a human carcinogen

Reproductivity Possible reproductive hazard

Chronic toxicity Prolonged exposure may cause chronic effects

Further Information Symptoms may be delayed

12. Ecological Information

Ecotoxicity This material is not expected to be harmful to aquatic life. Components of this product have been identified as having potential environmental concerns.

Invertebrate Toxicity: EC50 value

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>4.58 mg/l 24 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>100 mg/l 24 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>100 mg/l 4 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>100 mg/l 2 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>10000 mg/l 24 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>0000 mg/l 48 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)7.7-11.2 mg/l 48 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>10100-11200 mg/l 48 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>12300-13400 mg/l 24 h Static Intoxication

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>100 mg/l 6 h Static Intoxication

Micro-organisms Toxicity: LC50 value

ALCOHOL DENAT. 64-17-5 Tubellarian, flatworm (Dugesia tigrina)>100 mg/l 96 h Static Mortality

13. Disposal Considerations

Waste Codes D001: Waste Flammable material with a flash pint <140° F (60°C)

Disposal instructions Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in a approved incinerator.

14. Transport Information

Department of Transportation (DOT) Requirements

<=1L (33.8 Fl. Oz.)

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

ERG Number 126

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper Shipping name Aerosols, flammable

Hazard Class 2.1

UN Number UN1950

Additional information:

Special provisions 153, N82

Packaging Exceptions 306

Packaging Non bulk None

Packaging bulk None

ERG Number 126

IATA

Material Name: Static Guard Antistatic Spray MSDS

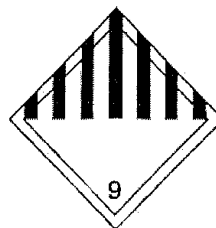


MSDS US

<=1L (33.8 Fl. Oz.)

Basic shipping requirements:

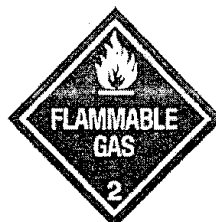
Proper Shipping name	Consumer Commodity
Hazard Class	9
Subsidiary Hazard Class	3
UN Number	ID8000
Packaging instructions	910



IATA

Basic shipping requirements:

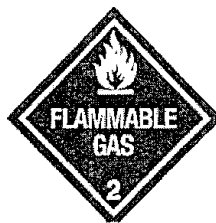
Proper Shipping name	Aerosols, flammable
Hazard Class	2.1
Subsidiary Hazard Class	6.1
UN Number	1950
Packaging instructions	Forbidden



IMDG

Basic shipping requirements:

Proper Shipping name	Aerosols, flammable
Hazard Class	2.1
Subsidiary Hazard Class	3
UN Number	1950
Additional Information	
Item	5F
Labels Required	2.1
Transport Category	2



15. Regulatory Information

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910, 1200
CERCLA/SARA Hazardous Substances – Not applicable

Occupational Safety and Health Administration (OSHA)

29 CFR 1910, 1200 Hazardous Chemical	Yes
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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	Immediate Hazard – Yes Delayed Hazard – Yes Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard - No

HMIS ratings

Health: 1*
Flammability: 4
Physical Hazard: 1

NFPA ratings

Health : 1
Flammability: 4
Instability: 1

International Regulations

This product is classified and labeled in accordance with EC directives or respective national laws.

Inventory Status

Country(s) or region	Inventory Name	On inventory (yes/no)
Australia	Australian inventory of Chemical Substance (AICS)	No
Canada	Domestic Substance List (DSL)	No
Canada	Non Domestic Substance List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No

Material Name: Static Guard Antistatic Spray MSDS

MSDS US

Europe	European Inventory of Notified Chemical Substances (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substance (ENCS)	No
Korea	Korean Inventory of Chemicals (KICS)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippines Inventory of Chemicals and Chemical Substances(PICCS)	No
United States & Puerto Rico	Toxic Substance 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

US – New Jersey Community RTK (EHS Survey): Reportable threshold

Hydrofluorocarbon 152A	75-37-5	500 lbs
Isobutane	75-28-5	500 lbs
Propane	74-98-6	500 lbs

US – Pennsylvania RTK – Hazardous Substances: posted Substance

Alcohol Denatured	64-17-5	Listed
Isobutane	75-28-5	Listed
Propane	74-98-6	Listed

16. Other information

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 designed and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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