SAFETY DATA SHEET

Liquefied gas



1. Identification

Product number Product identifier Revision date Company information

Company phone Emergency telephone US Emergency telephone outside US Version # Supersedes date Recommended use Recommended restrictions 100000075 **GLASS CLEANER** 05-30-2015 Sprayway, Inc. 1005 S. Westgate Drive Addison, IL 60101 United States General Assistance 1-630-628-3000 1-866-836-8855 1-952-852-4646 02 05-26-2015

2. Hazard(s) identification

Physical hazards Health hazards Environmental hazards OSHA defined hazards Label elements

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Gases under pressure

Not classified.

Not classified.

Not classified.

cleaner None known.

Signal word	Warning
Hazard statement	Contains gas under pressure; may explode if heated.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Protect from sunlight. Store in a well-ventilated place.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	2.5 - 10
Ethyl Alcohol		64-17-5	2.5 - 10
Butane		106-97-8	1 - 2.5
Propane		74-98-6	1 - 2.5
Other components below reportable levels			90 - 100

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

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4. First-aid measures

4. First-aid measures	
Inhalation	Move to fresh air. Get medical attention if symptoms persist.
Skin contact	Get medical attention if irritation develops and persists.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. 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. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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. Cool containers exposed to heat with water spray and remove container, if no risk is involved. 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.
General fire hazards	No unusual fire or explosion hazards noted.

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. 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. See Section 8 of the SDS for Personal Protective Equipment. 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. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. 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.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	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. Ground and bond containers when transferring material. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Level 1 Aerosol.

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. Keep containers tightly closed in a dry, cool and well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	•	· Val	ue ·
2-Butoxyethanol (CAS 111-76-2)	PEL	7	240	mg/m3
			•	ppm
Ethyl Alcohol (CAS 64-17-	5) PEL		190	0 mg/m3
<u>.</u>				0 ppm
Propane (CAS 74-98-6)	PEL			0 mg/m3
			100	0 ppm
US. ACGIH Threshold Li	mit Values			
Components	Туре		Val	ue
2-Butoxyethanol (CAS	TWA		20 ;	opm
111-76-2)				
Butane (CAS 106-97-8)	STEL			0 ppm
Ethyl Alcohol (CAS 64-17-	5) STEL		100	0 ppm
US. NIOSH: Pocket Guid	e to Chemical Hazards			
Components	Туре		Val	ue
2-Butoxyethanol (CAS 111-76-2)	TWA		24 เ	ng/m3
,			5 pj	om
Butane (CAS 106-97-8)	TWA		190	0 mg/m3
			800	ppm
Ethyl Alcohol (CAS 64-17-	5) TŴA		190	0 mg/m3
			100	0 ppm
Propane (CAS 74-98-6)	TWA		180	0 mg/m3
			100	0 ppm
logical limit values				
ACGIH Biological Expos Components	ure Indices Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
* - For sampling details, pl	ease see the source docu			
oosure guidelines				
US - California OELs: Sk	in designation			
2-Butoxyethanol (CAS	÷	Can be	absorbed throug	the skin
US - Minnesota Haz Sub	,			
2-Butoxyethanol (CAS US - Tennesse OELs: Sk		Skin de	esignation applies	S
2-Butoxyethanol (CAS US NIOSH Pocket Guide	•		e absorbed throug	h the skin.
2-Butoxyethanol (CAS	S 111-76-2) its for Air Contaminants		e absorbed throug 00)	gh the skin.
•••••••••••••		<u> </u>	absorbed throug	the skin
2-Butoxyethanol (CAS	S 111-76-2)	Can be	ะ สมรับเมอน แทบนยู่	jii alo olan.

Individual protection measures, such as personal protective equipment

Eye/face protection	If contact is likely, safety glasses with side shields are recommended.
Hand protection	For prolonged or repeated skin contact use suitable protective gloves.
Skin protection	
Other	Wear suitable protective clothing.
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not 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

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Appearance	Clear.
Physical state	Gas.
Form	Aerosol. Liquefied gas.
Color	Light yellow.
Odor	Characteristic.
Odor threshold	Not available.
рН	9.1 - 10.1 estimated
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °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 exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	80 - 100 psig @70F estimated
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	
Aerosol spray enclosed spa	ace
Deflagration density	> 2.52 g/cm3 Tested
Aerosol spray ignition distance	< 15 cm Tested estimated
Specific gravity	0.977 - 0.997

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	No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

May be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
2-Butoxyethanol (CAS 111-7	76-2)	
Acute		
Dermal		
LD50	Guinea pig	230 ml/kg, 24 Hours
		7.3 ml/kg, 4 Days
	Rabbit	450 ml/kg, 24 Hours
		435 mg/kg, 24 Hours
		0.63 ml/kg
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rabbit	400 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
Oral		
LD100	Rabbit	695 mg/kg
LD50	Dog	> 695 mg/kg
	Guinea pig	1200 mg/kg
-	Rat	530 - 2800 mg/kg
Butane (CAS 106-97-8)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l

Ethyl Alcohol (CAS 64-17-5) Acute Inhalation LC50 Cat Nouse Rat Crai LD50 Monkey Mouse Rat Propane (CAS 74-98-6) Acute Inhalation LC50 Rat Propane (CAS 74-98-6) Acute Inhalation LC50 Rat Rat * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Kespiratory sensitization Respiratory or skin sensitization Respiratory cry cryster Skin sensitization IARC Monographs. Overall Evaluation of Carcinogenicity 2-Butoxyethanol (CAS 111-76-2) Not classified. Reproductive toxicity This product is not expected to cause reproductive Specific target organ toxicity - Sing exposure Aspiration hazard Not an aspiration hazard. Not likely, due to the form Chronic effects	
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Rat Oral LD50 Monkey Mouse Rat Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse Rat * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation May be irritating to the skin. Prolonged skin contact Serious eye damage/eye Direct contact with eyes may cause temporary irritation Respiratory or skin sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitiz Germ cell mutagenicity No data available to indicate product or any compormutagenic or genotoxic. Carcinogenicity This product is not expected to be a carcinogen of Carcinogenicity 2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable a OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Reproductive toxicity This product is not expected to cause reproductive Specific target organ toxicity - Single exposure Specific target organ toxicity - single exposure Not classified. Specific target organ toxicity - repeated exposure Not classified. Specific target organ toxicity - repeated exposure Not classified. <t< td=""><td>•</td></t<>	•
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LD50 Monkey Mouse Rat Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse Rat * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation May be irritating to the skin. Prolonged skin contact Serious eye damage/eye Direct contact with eyes may cause temporary irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitiz Germ cell mutagenicity No data available to indicate product or any compo mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen I IARC Monographs. Overall Evaluation of Carcinogenicity 2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable a OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Reproductive toxicity This product is not expected to cause reproductive Specific target organ toxicity - single exposure Specific target organ toxicity - single exposure Specific target organ toxicity - Specific target organ toxicity - Not classified. Seriation hazard Not an aspiration hazard. Not likely, due to the form	> 115.9 mg/l, 4 Hours
LD50 Monkey Mouse Rat Propane (CAS 74-98-6) Acute Inhalation LC50 Mouse Rat * Estimates for product may be based on additional component data not shown. Skin corrosion/irritation May be irritating to the skin. Prolonged skin contact Serious eye damage/eye Direct contact with eyes may cause temporary irritation Respiratory or skin sensitization Respiratory sensitization Not a respiratory sensitizer. Skin sensitization This product is not expected to cause skin sensitiz Germ cell mutagenicity No data available to indicate product or any compo mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen I IARC Monographs. Overall Evaluation of Carcinogenicity 2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable a OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Reproduct ve toxicity This product is not expected to cause reproductive Specific target organ toxicity - Single exposure Specific target organ toxicity - Specific target organ toxicity - Specific target organ toxicity - Not classified. Sepiration hazard Not an aspiration hazard. Not likely, due to the form	51.3 mg/l, 6 Hours
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repeated exposureAspiration hazardNot an aspiration hazard. Not likely, due to the form	
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Chronic effects Prolonged inhalation may be harmful. May be harr	n of the product.
	nful if absorbed through skin.
2-Butoxy ethanol may be absorbed through the sk prolonged. These effects have not been observed	
12. Ecological information	
Ecotoxicity Harmful to aquatic life.	

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Product		Species	Test Results
GLASS CLEANER (CAS Mix	(ture)		
Aquatic			
Crustacea	EC50	Daphnia	13838.1602 mg/l, 48 hours estimated
Components		Species	Test Results
2-Butoxyethanol (CAS 111-7	(6-2)		
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
Ethyl Alcohol (CAS 64-17-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	7700 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100.1 mg/l, 96 hours
* Estimates for product may	be based on a	additional component data not shown.	
rsistence and degradability	No data is	available on the degradability of this product.	
paccumulative potential	No data av	vailable.	
Partition coefficient n-octa	nol / water (l	og Kow)	
2-Butoxyethanol		0.83	
Butane		2.89	
Ethyl Alcohol		-0.31	
Propane		2.36	
bility in soil	No data av	vailable.	
ner adverse effects		dverse environmental effects (e.g. ozone dep endocrine disruption, global warming potential	
. Disposal consideratio	ons		
sposal instructions	*	thorities before disposal. Contents under pres	sure. Do not puncture, incinerate or crus

Disposal instructions	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.
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
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
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.

ΙΑΤΑ

UN number	UN1950
UN proper shipping name	Aerosols, non-flammable

Transport hazard class(es)	
Class	2.2
Subsidiary risk	
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	2L
Special precautions for use	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
	r Read safety instructions, SDS and emergency procedures before handling.
Packaging Exceptions	LTD QTY
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
the IBC Code	

DOT



IATA; IMDG



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)

Not 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)

На	zarc	l categories	

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)

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

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)

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

2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8) 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)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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

Product name: GLASS CLEANER

Product #: 1000000075 Version #: 02 Revision date: 05-30-2015 Issue date: 05-26-2015

Country(s) or region	Inventory name	On inventory (yes/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).

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

Issue date	05-26-2015
Revision date	05-30-2015
·· Version #	02
References	EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision Information	Product and Company Identification: Alternate Trade Names