Sprayway_®

SAFETY DATA SHEET

1. Identification

1. Identification	
Product number	100000640
Product identifier	AMMONIATED GLASS CLEANER
Company information	Sprayway, Inc. 1005 S. Westgate Drive Addison, IL 60101 United States
Company phone	General Assistance 1-630-628-3000
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	01
Recommended use	Cleaner
Recommended restrictions	None known.
2. Hazard(s) identification	
Physical hazards	Flammable aerosols

Physical hazards Health hazards **Environmental hazards OSHA** defined hazards

Label elements



Not classified.

Not classified.

Not classified.

Category 1

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Signal word	Danger
Hazard statement	Extremely flammable aerosol.
Precautionary statement	
Prevention	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.
Response	Wash hands after handling.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
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
Butane		106-97-8	2.5 - 10
Propane		74-98-6	1 - 2.5
Sodium Nitrite		7632-00-0	0.1 - 1
Other components below reportable levels			90 - 100

Other components below reportable levels

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

4. First-aid measures

Inhalation

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

Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. 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. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
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. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
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	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 meas	sures
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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. 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.
	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.

Environmental precautions Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for safe handling	 Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. 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. Use non-sparking tools and explosion-proof equipment. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".
Conditions for safe storage, including any incompatibilities	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. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a well-ventilated

place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the

8. Exposure controls/personal protection

Occupational exposure limits

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

SDS).

Components	Тур	e	Val	ue	
2-Butoxyethanol (CAS 111-76-2)	PEL		240) mg/m3	
·			50	ppm	
Propane (CAS 74-98-6)	PEL		180	00 mg/m3	
			100	00 ppm	
US. ACGIH Threshold L	imit Values				
Components	Тур	e	Val	ue	
2-Butoxyethanol (CAS 111-76-2)	TW	Ą	20	ppm	
Butane (CAS 106-97-8)	STE	L	100	00 ppm	
US. NIOSH: Pocket Guid	le to Chemical Hazards				
Components	Тур	e	Val	ue	
2-Butoxyethanol (CAS 111-76-2)	TW	Ą	24	mg/m3	
			5 p	pm	
Butane (CAS 106-97-8)	TW	Ą	190	00 mg/m3	
			800) ppm	
Propane (CAS 74-98-6)	TW	4		00 mg/m3	
			100	10 ppm	
ogical limit values					
ACGIH Biological Expos	sure Indices				
Components	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, please see the source document.

Exposure guidelines				
US - California OELs: Skin designation				
2-Butoxyethanol (CAS 11	,	Can be absorbed through the skin.		
US - Minnesota Haz Subs: S	kin designation applies			
2-Butoxyethanol (CAS 11	,	Skin designation applies.		
US - Tennesse OELs: Skin d	esignation			
2-Butoxyethanol (CAS 11		Can be absorbed through the skin.		
US NIOSH Pocket Guide to C	Chemical Hazards: Skin desigr	nation		
2-Butoxyethanol (CAS 11		Can be absorbed through the skin.		
US. OSHA Table Z-1 Limits f	or Air Contaminants (29 CFR ²	1910.1000)		
2-Butoxyethanol (CAS 11	1-76-2)	Can be absorbed through the skin.		
Appropriate engineering controls	Explosion-proof general and local exhaust ventilation. 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.			
Individual protection measures,				
Eye/face protection	Wear safety glasses with side shields (or goggles).			
Hand protection	Wear appropriate chemical resistant gloves.			
Skin protection				
Other	Wear appropriate chemical resistant clothing.			
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.			
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.			
General hygiene considerations		vays observe good personal hygiene measures, such as washing before eating, drinking, and/or smoking. Routinely wash work ent to remove contaminants.		

9. Physical and chemical properties

Appearance	
Physical state	Gas.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	199.26 °F (92.92 °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	50 - 70 psig @20C 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	
Specific gravity	0.97 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	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. Fire or intense heat may cause violent rupture of packages.	
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	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.	

Information on toxicological effects

Acute	toxicity
Addito	COALOILY

Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Product	Species	Test Results
AMMONIATED GLASS CLE	ANER (CAS Mixture)	
Acute		
Inhalation		
LC50	Rat	1594 mg/l/4h
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

Components	Species	Test Results	
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	
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	
Sodium Nitrite (CAS 7632-00-0)			
Acute			
Inhalation			
LC50	Rat	5.5 mg/kg, 4 hours supplier	
Oral			
LD50	Rat	88 mg/kg supplier	
* Estimates for product may b	e based on additional component dat	a not shown	
Skin corrosion/irritation	Prolonged skin contact may cause		
Serious eye damage/eye	Direct contact with eyes may cause		
irritation			
Respiratory or skin sensitization	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cau	se 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	e a carcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
2-Butoxyethanol (CAS 11 OSHA Specifically Regulate	1-76-2) 3 N d Substances (29 CFR 1910.1001-1	ot classifiable as to carcinogenicity to humans. 050)	
Not listed.			
Reproductive toxicity	This product is not expected to cau	se reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged inhalation may be harmful. May be harmful if absorbed through skin.		
	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.		
12. Ecological informatior	1		
Ecotoxicity		ironmentally hazardous. However, this does not exclude the	

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results	
AMMONIATED GLASS CLE	ANER (CAS M	ixture)		
Aquatic				
Crustacea	EC50	Daphnia	43620 mg/L, 48 Hours	
Fish	LC50	Fish	1937 mg/L, 96 Hours	
Components		Species	Test Results	
2-Butoxyethanol (CAS 111-7	6-2)			
Aquatic				
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours	
Sodium Nitrite (CAS 7632-00)-0)			
Aquatic				
Crustacea	EC50	Greasyback shrimp (Metapenaeus ensis)	16.14 - 26.61 mg/l, 48 hours	
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.15 - 0.25 mg/l, 96 hours	
* Estimates for product may I	be based on ac	lditional component data not shown.		
ersistence and degradability		vailable on the degradability of this produc	t.	
oaccumulative potential	No data ava			
Partition coefficient n-octa	nol / water (log	g Kow)		
2-Butoxyethanol		0.83		
Butane		2.89 2.36		
Propane obility in soil	No data ava			
her adverse effects		No data available.		
iller auverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
3. Disposal consideratio	ons			
sposal instructions	under press	reclaim or dispose in sealed containers at l ure. Do not puncture, incinerate or crush. I gional/national/international regulations.		
ocal disposal regulations	Dispose in a	Dispose in accordance with all applicable regulations.		
azardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
aste from residues / unused oducts		n accordance with local regulations. Empty dues. This material and its container must structions).		
ontaminated packaging	Since empti	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.		
4. Transport information	1			
т				
UN number	UN1950			
UN proper shipping name Transport hazard class(es)		ammable, (each not exceeding 1 L capacity	()	
Class	2.1			
Subsidiary risk	- 2.1			
Label(s) Packing group	2.1 Not applicat	ble		
		instructions, SDS and emergency procedu	ires before handling.	
Special provisions	N82	, , p = 00000	- J	
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, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
Special precautions for user	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	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for user	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	



15. Regulatory information

15. Regulatory informa					
US federal regulations	Standard, 2	9 CFR 1910.120		d by the OSHA Hazard ory List.	Communication
TSCA Section 12(b) Exp	ort Notification (40 CFR 707, Su	ıbpt. D)		
Not regulated.					
CERCLA Hazardous Sul	bstance List (40	CFR 302.4)			
Sodium Nitrite (CAS			Listed.		
SARA 304 Emergency re	elease notificatio	on			
Not regulated. OSHA Specifically Regu Not listed.	lated Substance	s (29 CFR 1910	.1001-1050)		
Superfund Amendments and	d Reauthorizatio	n Act of 1986 (S			
Hazard categories		Hazard - No Izard - No I - Yes azard - No			
SARA 302 Extremely ha	zardous substar	ice			
Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Anhydrous Ammonia	7664-41-7	100	500 lbs		
SARA 311/312 Hazardou chemical	is No				
SARA 313 (TRI reporting	g)				
Chemical name			CAS number	% by wt.	
Sodium Nitrite			7632-00-0	0.1 - 1	
Other federal regulations					
Clean Air Act (CAA) Sec	tion 112 Hazardo	ous Air Pollutai	nts (HAPs) List		
Not regulated. Clean Air Act (CAA) Sec	tion 112(r) Accio	lental Release I	Prevention (40 CFR 6	8.130)	
Butane (CAS 106-97 Propane (CAS 74-98					
Safe Drinking Water Act (SDWA)	Not regulate	ed.			
US state regulations	WARNING:	This product co	ontains a chemical know	wn to the State of Califo	rnia to cause cancer.
US. Massachusetts	RTK - Substance	e List			
Butane (CAS 106-97-8) Propane (CAS 74-98-6) Sodium Nitrite (CAS 7632-00-0) US. New Jersey Worker and Community Right-to-Know Act 2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane (CAS 74-98-6) Sodium Nitrite (CAS 7632-00-0) US. Pennsylvania Worker and Community Right-to-Know Law 2-Butoxyethanol (CAS 111-76-2) Butane (CAS 106-97-8) Propane (CAS 74-98-6) Sodium Nitrite (CAS 7632-00-0) US. Rhode Island RTK					
Butane (CAS 10 Propane (CAS 7 Sodium Nitrite (C	4-98-6)				

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)	Yes
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	05-30-2015
Version #	01
Disclaimer	We 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.