

SAFETY DATA SHEET

1. Identification

Product identifier	Aerosol Glass Cleaner- Amm	onia Free
Other means of identification		
Product Code	132920	
Recommended use	Glass Cleaner	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Presta Products	
Address	361 Fairview Ave	
	Barberton, OH 44203	
	United States	
Telephone	Phone	800-253-2526
	Fax	330-777-8317
Website	www.prestaproducts.com	
E-mail	msdsinfo@malcopro.com	
Contact person	Technical Department	
Emergency phone number	Phone	1-800-424-9300

2. Hazard(s) identification

Physical hazards	Gases under pressure	Liquefied gas
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



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)	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	%
Ethanol		64-17-5	5 - < 10
Ethylene Glycol Monobutyl Ether		111-76-2	5 - < 10
N-butane		106-97-8	1 - < 3

Chemical name	Common name and synonyms	CAS number	%
Propane		74-98-6	1 - < 3
Other components below report	able levels		80 - < 90

*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	No adverse effects due to skin contact are expected.
Eye contact	No specific first aid measures noted.
Ingestion	Not likely, due to the form of the product. In the unlikely event of swallowing contact a physician or poison control center.
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	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	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. 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	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
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. Remove all possible sources of ignition in the surrounding area. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). 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. Use appropriate containment to avoid environmental contamination.

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. Isolate area until gas has dispersed. 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. 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. Ground and bond containers when transferring material. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. 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.
	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.
	Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store in a well-ventilated place. 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	Value	
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3	
		1000 ppm	
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
		1000 ppm	
US. ACGIH Threshold Limit Value	5		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	STEL	1000 ppm	
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	20 ppm	
N-butane (CAS 106-97-8)	STEL	1000 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3	
		1000 ppm	
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	TWA	24 mg/m3	
		5 ppm	
	TWA	1900 mg/m3	

US. NIOSH: Pocket Guide to Components	o Chemical Hazards Type		Va	lue
Propane (CAS 74-98-6)	TWA		80 18	0 ppm 00 mg/m3 00 ppm
ological limit values				
ACGIH Biological Exposure Components	e Indices /alue	Determinant	Specimen	Sampling Time
Ethylene Glycol Monobutyl 2 Ether (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysi	Creatinine in urine s	*
* - For sampling details, pleas	se see the source docu	iment.		
posure guidelines				
US - California OELs: Skin	designation			
Ethylene Glycol Monobu US - Minnesota Haz Subs: \$			n be absorbed throu	gh the skin.
Ethylene Glycol Monobu US - Tennessee OELs: Skin		2) Ski	n designation applie	S.
Ethylene Glycol Monobu US NIOSH Pocket Guide to	Chemical Hazards: S	kin designatio		-
Ethylene Glycol Monobu US. OSHA Table Z-1 Limits	for Air Contaminants	(29 CFR 1910	n be absorbed throu .1000)	gh the skin.
Ethylene Glycol Monobu	tyl Ether (CAS 111-76-	2) Ca	n be absorbed throu	gh the skin.
propriate engineering ntrols	should be matched to or other engineering	to conditions. If controls to ma	applicable, use pro intain airborne level	nour) should be used. Ventilation rates cess enclosures, local exhaust ventilation s below recommended exposure limits. I borne levels to an acceptable level.
ividual protection measures Eye/face protection	, such as personal pr Wear safety glasses			
Skin protection				
Hand protection	Wear appropriate ch supplier.	nemical resistar	nt gloves. Suitable g	loves can be recommended by the glove
Other	Wear suitable protect	ctive clothing.		
Respiratory protection	If permissible levels air-supplied respirate		use NIOSH mechan	ical filter / organic vapor cartridge or an
Thermal hazards	Wear appropriate th	ermal protectiv	e clothing, when neo	cessary.
neral hygiene nsiderations		aterial and befo	ore eating, drinking,	onal hygiene measures, such as washing and/or smoking. Routinely wash work ants.
Physical and chemical	properties			
pearance	Clear.			
Physical state	Liquid.			
Form	Aerosol. Compresse	ed gas.		
Color	Light yellow.			
or	Characteristic.			
or threshold	Not available.			
	Not available.			
Iting point/freezing point	-164.96 °F (-109.42	-		
ial boiling point and boiling Ige	197.21 °F (91.79 °C) estimated		
sh point	64.8 °F (18.2 °C) es	timated		
aporation rate	Not available.			
mmability (solid, gas)	Not applicable.			

Upper/lower flammability or explosive limits

Upper/lower flammability or expl	losive limits
Flammability limit - lower (%)	2.1 % estimated
Flammability limit - upper (%)	9 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	139.75 hPa 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	599.67 °F (315.37 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Heat of combustion (NFPA 30B)	4.92 kJ/g estimated
Oxidizing properties	Not oxidizing.
Percent volatile	96.5 % estimated
VOC (Weight %)	12.5 % 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	Heat. 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

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.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological eff	fects

Acute toxicity

Compone		Species	Test Results	
	AS 64-17-5)			
	<u>cute</u>			
	halation	Maura		
L	C50	Mouse	39 mg/l, 4 Hours	
_		Rat	20000 ppm, 10 Hours	
	oral	2		
LI	D50	Dog	5.5 g/kg	
		Guinea pig	5.6 g/kg	
		Mouse	3450 mg/kg	
		Rat	6.2 g/kg	
Ethylene G	Slycol Monobutyl Ether (CAS 111-76-2)		
	cute			
	ermal			
LI	D50	Rabbit	400 mg/kg	
	halation			
L	C50	Mouse	700 ppm, 7 Hours	
		Rat	450 ppm, 4 Hours	
-	ral			
LI	D50	Guinea pig	1.2 g/kg	
		Mouse	1.2 g/kg	
		Rabbit	0.32 g/kg	
		Rat	560 mg/kg	
N-butane (CAS 106-97-8)			
<u>A</u>	<u>cute</u>			
In	halation			
L	C50	Mouse	680 mg/l, 2 Hours	
		Rat	658 mg/l, 4 Hours	
Propane (C	CAS 74-98-6)			
<u>A</u>	<u>cute</u>			
In	halation			
L	C50	Rat	> 1442.847 mg/l, 15 Minutes	
* Estin	nates for product may b	e based on additional component data not	shown	
	sion/irritation	Prolonged skin contact may cause temp		
	/e damage/eye	Direct contact with eyes may cause temp	,	
rritation	, • • • • • • • • • • • • • • • • • • •	,		
Respirato	ry or skin sensitizatior	1		
Respi	ratory sensitization	Not a respiratory sensitizer.		
Skin s	sensitization	This product is not expected to cause sk	in sensitization.	
Germ cell	mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinoge	enicity	This product is not considered to be a ca	arcinogen by IARC, ACGIH, NTP, or OSHA.	
IARC	Monographs. Overall I	Evaluation of Carcinogenicity		
OSHA	Specifically Regulate	yl Ether (CAS 111-76-2) 3 Not cla d Substances (29 CFR 1910.1001-1050)	assifiable as to carcinogenicity to humans.	
	ot listed.			
-	tive toxicity	This product is not expected to cause re	productive or developmental effects.	
Specific ta single exp	arget organ toxicity - oosure	Not classified.		
Specific ta	arget organ toxicity -	Not classified.		

Aspiration hazard	Not an aspiration hazard.	
Chronic effects	May be harmful if absorbed through skin. Prolonged inhalation may be harmful.	
	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 information

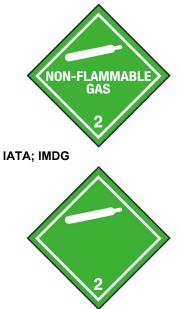
with local/regional/national/international regulations.Local disposal regulationsDispose in accordance with all applicable regulations.	Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment				
Ethanol (CAS 64-17-5) Aquatic Crustacea EC50 Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours Ethylene Glycol Monobulyl Ether (CAS 111-76-2) Aquatic Aquatic Fish LC50 Fish LC50 Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours * Estimates for product may be based on additional component data not shown. Porsistence and degradability No data is available on the degradability of this product. Bloaccumulative potential -0.31 Ethylene Glycol Monobulyl Ether 0.83 N-butane 2.89 Propane 2.36 Mobility in soil No data available. No data available. Other adverse environmental effects (e.g. cozone depletion, photochemical ozone creation potential, endocrine disruption, global warning potential) are expected from this component. 13. Disposal considerations Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance with local regulations. Local disposal regulations Dispose in accordance with local regulations. Empty containers may retain some product solution residues. This material and its container mus be disposed of in a safe man	Components		Species	Test Results		
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Packaging non bulk 202						
Packaging bulk 242						

Packaging bulk

242

ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	3H
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	Aerosols
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-E, <u>S-E</u>
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	

DOT



General information

US federal regulations

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

15. Regulatory information

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

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) Immediate Hazard - No Hazard categories Delayed Hazard - No Fire Hazard - Yes 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) N-butane (CAS 106-97-8) Propane (CAS 74-98-6) Safe Drinking Water Act Not regulated. (SDWA) **US state regulations** US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed. US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)) Ethylene Glycol Monobutyl Ether (CAS 111-76-2) N-butane (CAS 106-97-8) US. Massachusetts RTK - Substance List Ethanol (CAS 64-17-5) Ethylene Glycol Monobutyl Ether (CAS 111-76-2) N-butane (CAS 106-97-8) Propane (CAS 74-98-6) US. New Jersey Worker and Community Right-to-Know Act Ethanol (CAS 64-17-5) Ethylene Glycol Monobutyl Ether (CAS 111-76-2) N-butane (CAS 106-97-8) Propane (CAS 74-98-6) US. Pennsylvania Worker and Community Right-to-Know Law Ethanol (CAS 64-17-5) Ethylene Glycol Monobutyl Ether (CAS 111-76-2) N-butane (CAS 106-97-8) Propane (CAS 74-98-6) **US. Rhode Island RTK** N-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)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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	05-12-2015
Version #	01
Disclaimer	Presta Products 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 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.