# **MATERIAL SAFETY DATA SHEET**

## 1. Product and Company Identification

Product number	1000027353
Material name	19 OZ ECLAT GLASS & MIRROR CLNR LB 12PK
Company information	Manic Sanitation 66 Rue Fraser Rivere-du-Loup, QC G5R 1C2 Canada
Company phone	General Assistance 1-800-463-4445
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	47
Expiry Date	16-Jun-2017
Product use	cleaner
2. Hazards Identification	
Emergency overview	DANGER
	Aerosol. Pressurized container may explode when exposed to heat or flame. Irritating to eyes and skin.
Potential health effects	
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Eyes	Contact with eyes may cause irritation. Avoid contact with eyes.
Skin	Do not get this material in contact with skin. May be harmful if absorbed through skin. May cause skin irritation.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. May cause irritation of respiratory tract.
Ingestion	Exposure by ingestion of an aerosol is unlikely. Irritating. May cause nausea, stomach pain and vomiting.
Target organs	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.
Chronic effects	May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Signs and symptoms	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Potential environmental effects	May cause long-term adverse effects in the environment.
3. Composition / Informati	on on Ingredients

#### Components

Components	CAS #	Percent
Butane	106-97-8	1 - 5
Ethanol	64-17-5	1 - 5
Ethylene Glycol Monobutyl Ether	111-76-2	1 - 5
Propane	74-98-6	1 - 5
Other components below reportable levels		60 - 100

### 4. First Aid Measures

First aid procedures	
Inhalation	Move to fresh air. Get medical attention, if needed.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.

Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Notes to physician	Treat symptomatically.
General advice	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire Fighting Measures	
Flammable properties	Heat may cause the containers to explode. Ruptured cylinders may rocket.
Extinguishing media	
Suitable extinguishing media	Not available.
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.

**Protection of firefighters** 

media

firefighters

**Specific methods** 

**Fire fighting** 

products

Specific hazards arising Contents under pressure. Pressurized container may explode when exposed to heat or flame. from the chemical

Firefighters should wear full protective clothing including self contained breathing apparatus. Protective equipment for Structural firefighters protective clothing will only provide limited protection.

Firefighters must use standard protective equipment including flame retardant coat, helmet with equipment/instructions face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Do not direct water at source of leak or safety devices as icing may occur. Containers should be cooled with water to prevent vapor pressure build up. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Use standard firefighting procedures and consider the hazards of other involved materials.

Explosion data				
Sensitivity to static discharge	Not available.			
Sensitivity to mechanical impact	Not available.			
Hazardous combustion	Not available.			

### 6. Accidental Release Measures

Personal precautions	Consider initial downwind evacuation for at least 500 meters (1/3 mile). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the MSDS.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
Methods for containment	Stop leak if you can do so without risk. If possible, turn leaking containers so that gas escapes rather than liquid. Move the cylinder to a safe and open area if the leak is irreparable. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Isolate area until gas has dispersed. Ventilate the area. Should not be released into the environment. Clean up in accordance with all applicable regulations. Stop the flow of material, if this is without risk. For waste disposal, see section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.
7. Handling and Storage	
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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid breathing mist or vapor. When using do not eat or drink. Do not use in

areas without adequate ventilation. Wash thoroughly after handling. Avoid release to the

environment.

#### 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. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the MSDS).

#### 8. Exposure Controls / Personal Protection

#### **Occupational exposure limits**

US. ACGIH Threshold Limit Values Components	Туре	Value
 Butane (CAS 106-97-8)	STEL	1000 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethylene Glycol Monobutyl	TWA	20 ppm
Ether (CAS 111-76-2)		
Canada. Alberta OELs (Occupatior	nal Health & Safety Code, Sch	nedule 1, Table 2)
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	1000 ppm
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
Ethylene Glycol Monobutyl	TWA	97 mg/m3
Ether (CAS 111-76-2)		-
		20 ppm
Propane (CAS 74-98-6)	TWA	1000 ppm
		s for Chemical Substances, Occupational Health and
Safety Regulation 296/97, as amen	_	M.L.
Components	Туре	Value
Butane (CAS 106-97-8)	STEL	750 ppm
	TWA	600 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethylene Glycol Monobutyl	TWA	20 ppm
Ether (CAS 111-76-2)		
Canada. Manitoba OELs (Reg. 217)		
Components	Туре	Value
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethylene Glycol Monobutyl	TWA	20 ppm
Ether (CAS 111-76-2)		
Canada. Ontario OELs. (Control of		
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	800 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm
Ethylene Glycol Monobutyl	TWA	20 ppm
Ether (CAS 111-76-2)		
		ing the Quality of the Work Environment)
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3
		800 ppm
Ethanol (CAS 64-17-5)	TWA	1880 mg/m3
		1000 ppm
		1000 ppm
Ethylene Glycol Monobutyl	TWA	97 mg/m3
	TWA	97 mg/m3
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)		97 mg/m3 20 ppm
Ethylene Glycol Monobutyl	TWA TWA	97 mg/m3

Components	Туре	)	Val	ue
Ethanol (CAS 64-17-5)	PEL		190	00 mg/m3
			100	00 ppm
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	PEL		240	) mg/m3
· · · · ·			50 ן	ppm
Propane (CAS 74-98-6)	PEL		180	00 mg/m3
			100	00 ppm
ological limit values				
ACGIH Biological Exposur	e Indices			
	Value	Determinant	Specimen	Sampling Time
Ethylene Glycol Monobutyl Ether (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
* - For sampling details, plea	se see the source doc	ument.		
gineering controls	Ensure adequate v	entilation, especially	in confined area	IS.
rsonal protective equipment	1			
Eye/face protection		Wear safety glasses with side shields (or goggles).		
Skin protection	Wear suitable prote	Wear suitable protective clothing.		
Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.			
		Wear protective gloves.		

## 9. Physical & Chemical Properties

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Appearance	
Physical state	Gas.
Form	Aerosol. Compressed gas.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	9.1 - 10.1 estimated
Vapor pressure	80 - 100 psig @70F estimated
Vapor density	Not available.
Boiling point	212 °F (100 °C) estimated
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	0.977 - 0.997
Relative density	Not available.
Flash point	-156.0 °F (-104.4 °C) Propellant estimated
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	Not available.
Partition coefficient (n-octanol/water)	Not available.
Other data	
Aerosol spray enclosed spa	ice
Deflagration density	> 2.52 g/cm3 Tested
Aerosol spray ignition distance	< 15 cm Tested estimated

Flammability (solid, gas) Not available.

## 10. Chemical Stability & Reactivity Information

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Risk of explosion.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

## 11. Toxicological Information

Toxicological data		
Components	Species	Test Results
Butane (CAS 106-97-8)		
<u>Acute</u>		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
Ethanol (CAS 64-17-5)		
<u>Acute</u> Inhalation		
LC50	Cat	85.41 mg/l, 4.5 Hours
2000	Cut	43.68 mg/l, 6 Hours
	Mouse	> 60000 ppm
	Mouse	79.43 mg/l, 134 Minutes
	Rat	
	Rai	> 115.9 mg/l, 4 Hours
		51.3 mg/l, 6 Hours
<b>Oral</b> LD50	Ria	> 5000 mg/kg
LD50	Pig	
Ethydana Olygal Manabytyd E	Rat	10470 mg/kg
Ethylene Glycol Monobutyl E <u>Acute</u>	ther (CAS 111-76-2)	
Dermal		
LD50	Guinea pig	7.3 ml/kg, 4 Days
		0.23 ml/kg, 24 Hours
	Rabbit	435 mg/kg, 24 Hours
		0.68 ml/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	1414 mg/kg
	Mouse	1519 mg/kg
	mouoo	

Components	Species		Test Results	
	Rat		1746 mg/kg	
Propane (CAS 74-98-6)				
Acute				
Inhalation				
LC50	Mouse		1237 mg/l, 120 Minutes	
		Ę	52 %, 120 Minutes	
	Rat		1355 mg/l	
		6	658 mg/l/4h	
Acute effects				
Sensitization	Not classified.			
Chronic effects		absorbed through skin.		
Chionic enects	May be narmun	absorbed through skin.		
		may be absorbed through the skin in t e effects have not been observed in h	toxic amounts if contact is repeated and umans.	
Carcinogenicity				
ACGIH Carcinogens				
Ethylene Glycol Monobu	tyl Ether (CAS 111-7	76-2) A3 Confirmed animal ca humans.	arcinogen with unknown relevance to	
IARC Monographs. Overall	<b>Evaluation of Carc</b>	inogenicity		
Ethylene Glycol Monobu	tyl Ether (CAS 111-7	76-2) 3 Not classifiable as to	carcinogenicity to humans.	
Skin corrosion/irritation	Prolonged skin co	ontact may cause temporary irritation.		
Serious eye damage/irritation	Direct contact wit	Direct contact with eyes may cause temporary irritation.		
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Reproductive effects	This product is no	ot expected to cause reproductive or d	evelopmental effects.	
Teratogenicity	Not available.	Not available.		
Symptoms and target organs	Direct contact wit	h eyes may cause temporary irritation		
Synergistic materials	Not available.			
12. Ecological Informatio	n			
Ecotoxicological data	-			
Product		pecies	Test Results	
19 OZ ECLAT GLASS & MIRROF	R CLNR LB 12PK			
Aquatic				
Crustacea		aphnia	13838.1602 mg/l, 48 hours estimated	
Components	SI	pecies	Test Results	
Ethanol (CAS 64-17-5)				
Aquatic	F.0.50		7700 44000	
Crustacea		/ater flea (Daphnia magna)	7700 - 11200 mg/l, 48 hours	
Fish	LC50 Fa	athead minnow (Pimephales promelas	s) > 100.1 mg/l, 96 hours	

Ethylene Glycol Monobutyl Ether (CAS 111-76-2)

Enviene Giycol Monobulyi Ether (CAS 111-76-2)			
Aquatic			
Fish	LC50	Inland silverside (Menidia beryllina)	1250 mg/l, 96 hours
Ecotoxicity	Contains a substance which causes risk of hazardous effects to the environment.		
Environmental effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.		
Aquatic toxicity	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.		
Persistence and degradability	No data is available on the degradability of this product.		

# Bioaccumulation / accumulation

Partition coefficient		
Butane	2.89	
Ethanol	-0.31	
Ethylene Glycol Monobutyl E	ither 0.83	
Propane	2.36	
Mobility in environmental media	No data available for this product.	
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	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.
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	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

## 14. Transport Information

TDG		
UN numb	er	UN1950
	r shipping name	AEROSOLS, non-flammable
	t hazard class(es)	
Class	5	2.2
Subs	idiary risk	-
Packing g	jroup	If <1L: Limited Quantity
	ental hazards	D
Special p	recautions for user	Read safety instructions, MSDS and emergency procedures before handling.
ΙΑΤΑ		
UN numb	er	UN1950
UN prope	r shipping name	Aerosols, non-flammable
Transport	t hazard class(es)	
Class	5	2.2
Subs	idiary risk	-
Label	l(s)	2.2
Packing g		Not applicable.
Environm	ental hazards	No.
ERG Cod		2L
		Read safety instructions, MSDS and emergency procedures before handling.
Other info	ormation	
	enger and cargo	Allowed with restrictions.
aircra		
-	o aircraft only	Allowed with restrictions.
IMDG		
UN numb		UN1950
	r shipping name	AEROSOLS
Transport	t hazard class(es)	
Class		2.2
Subs	idiary risk	-
Label	. ,	2.2
Packing g		Not applicable.
Environm	ental hazards	
	e pollutant	No.
EmS		Not available.
Special p	recautions for user	Read safety instructions, MSDS and emergency procedures before handling.

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

IATA; IMDG; TDG



#### 15. Regulatory Information

Canadian regulations

WHMIS status WHMIS classification

WHMIS labeling



#### International Inventories

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

Controlled

A - Compressed Gas D2B - Other Toxic Effects-TOXIC

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
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

Recommended use	Use in accordance with supplier's recommendations.
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.
Prepared by	Not available.