# MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Product number 230-001

Product name Glass Cleaner Effective date 15-Jun-2011

Company information

1005 Westgate Avenue

Addison, IL 60101 United States

Company phone General Assistance 1-630-543-7600 **Emergency telephone US** 

1-866-836-8855 Emergency telephone outside US 1-952-852-4646

Version #

Supersedes date 13-Nov-2007

## 2. Hazards Identification

**Emergency overview** Aerosol. CONTENTS UNDER PRESSURE. Will be easily ignited by heat, spark or flames.

Potential health effects

Eves Health injuries are not known or expected under normal use. Skin This product may be harmful if it is absorbed through the skin.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Exposure by ingestion of an aerosol is unlikely.

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 Unconsciousness.

Signs and symptoms Cyanosis.

## 3. Composition / Information on Ingredients

the following matter of ingredients		
CAS#	Percent	
106-97-8	3 - 5	
111-76-2	1 - 3	
67-63-0	1 - 3	
	1-3	
Non-hazardous and other components below reportable levels		
	CAS #  106-97-8  111-76-2  67-63-0  74-98-6	

### 4. First Aid Measures

First aid procedures

Eye contact Flush eyes with water as a precaution. Remove contact lenses, if present and easy to do.

Get medical attention if irritation develops or persists.

Skin contact Immediately take off all contaminated clothing. Wash off with soap and water. Get

medical attention if irritation develops or persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, get medical attention. Ingestion In the unlikely event of swallowing contact a physician or poison control center.

Notes to physician Symptoms may be delayed.

### 5. Fire Fighting Measures

Flammable properties Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may

cause fire or explosion hazard.

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Extinguishing media

Suitable extinguishing media

Protection of firefighters

Protective equipment and precautions for firefighters Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

### 6. Accidental Release Measures

### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.

### Methods for cleaning up

Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

### 7. Handling and Storage

Handling

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Avoid prolonged exposure.

Storage

Level 1 Aerosol

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep the container dry. Keep in an area equipped with sprinklers. Keep out of the reach of children. Level 1 Aerosol (NFPA 30B) Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

### 8. Exposure Controls / Personal Protection

#### **Exposure limits**

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Components	CAS#	TWA	STEL	Ceiling
n-Butane	106-97-8	1000 ppm	Not established	
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
Isopropyl Alcohol	67-63-0	200 ppm		Not established
Propane	74-98-6	• •	400 ppm	Not established
	700-0	1000 ppm	Not established	Not established
OSHA				
Components	CAS#	TWA	STEL	Ceiling
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established

400 ppm

1000 ppm

### Personal protective equipment

Eye / face protection

Respiratory protection

Not normally needed. Not normally needed.

Skin protection

Isopropy! Alcohol

Propane

No personal respiratory protective equipment normally required. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied

Not established

Not established

Not established

respirator.

67-63-0

74-98-6

### 9. Physical & Chemical Properties

Appearance **Boiling point** 

Compressed liquefied gas. 203 °F (95 °C) estimated

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Not established

Not established

Color Clear, Colorless,

Density 0.9724 g/cm3 estimated Flammability (HOC) 3.2733 kJ/g estimated

Flash back

Flash point -156 °F (-104.4 °C) Propellant

Form Liquid. Aerosol. Freezing point Not available Odor Solvent. pΗ 10.43 - 11.43

Physical state Liquid.

**Pressure** 65 - 75 psig @ 70F

Solubility Partially

Specific gravity 0.9725 estimated

### 10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Conditions to avoid Heat, flames and sparks.

None known. Incompatible materials

#### 11. Toxicological Information

Acute effects Acute LD50: 11375 mg/kg estimated, Rat, Dermal

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

2-Butoxyethanol 111-76-2 Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat

470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat

Isopropyl Alcohol 67-63-0 12800 mg/kg; Dermai LD50 Rabbit 12870 mg/kg

n-Butane 106-97-8 Inhalation LC50 Rat 658 mg/L 4 h

Propane 74-98-6 Inhalation LC50 Rat 658 mg/L 4 h

Sensitization Not expected to be hazardous by OSHA criteria. **Teratogenicity** Not expected to be hazardous by OSHA criteria.

#### 12. Ecological Information

**Ecotoxicity** LC50 1474 mg/L estimated, Fish, 96.00 Hours.

> EC50 29427 mg/L estimated, Daphnia, 48.00 Hours, IC50 52587 mg/L estimated, Algae, 72.00 Hours.

Components of this product have been identified as having potential environmental

concerns.

### 13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

Disposal instructions Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this

material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

#### 14. Transport Information

#### Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name Consumer commodity

ORM-D Hazard class Subsidiary hazard class

None

Additional information:

Packaging exceptions 156, 306

156, 306 Packaging non bulk Packaging bulk None

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#### **IMDG**

Basic shipping requirements:

Aerosols Proper shipping name 2.1 Hazard class

**UN** number Additional information:

LTD QTY Packaging exceptions None Labels required



#### IATA

Basic shipping requirements:

Aerosols, flammable Proper shipping name

1950

2.1 Hazard class 1950 **UN** number

Additional information:

LTD QTY Packaging exceptions 2.1 Labels required



### 15. Regulatory Information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

1.0 % de minimis concentration (applies to R-(OCH2CH2)n-OR', where n = 1,2, or 3, 111-76-2 2-Butoxyethanol

R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or

sulfonate, Chemical Category N230)

1.0 % de minimis concentration (only if manufactured by the strong acid process, no 67-63-0 Isopropyl Alcohol

supplier notification)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

**CERCLA (Superfund) reportable quantity** 

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Immediate Hazard - No Hazard categories (311/312)

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

Inventory status

On inventory (yes/no)\* Country(s) or region Inventory name

Yes Inventory of Existing Chemical Substances in China (IECSC) China No European Inventory of New and Existing Chemicals (EINECS) Europe No European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan Yes Existing Chemicals List (ECL) Korea Yes Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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#### State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

2-Butoxyethano! 111-76-2

Isopropyl Alcohol 67-63-0 Environmental hazard

n-Butane 106-97-8 Present Propane 74-98-6 Present

#### 16. Other Information

**Further information** HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our

Present

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.

MSDS sections updated

This document has undergone significant changes and should be reviewed in its entirety.

Prepared by Regulatory Compliance

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