

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 050

Product name Gleme Glass Cleaner

Effective date 10-Mar-2009

Company information Claire Manufacturing

500 Vista Ave.

Addison, IL 60101 United States

Company phone General Assistance 630-543-7600

Emergency telephone US 800-424-9300 Emergency telephone outside US 703-527-3887

Version # 14

Supersedes date 04-Mar-2009

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when

exposed to heat or flame. Prolonged exposure may cause chronic effects. May be ignited

by heat, sparks or flames.

Potential health effects

Routes of exposure Ingestion. Skin contact.

Eyes Health injuries are not known or expected under normal use.

Skin This product may be harmful if it is absorbed through the skin. Prolonged or repeated

contact can result in defatting and drying of the skin which may result in skin irritation and

dermatitis (rash).

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

Ingestion Exposure by ingestion of an aerosol is unlikely. Components of the product may be

absorbed into the body by ingestion.

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.

Blood. Liver.

Chronic effects Unconsciousness. Liver injury may occur.

3. Composition / Information on Ingredients

Components	CAS#	Percent
2-Butoxyethanol	111-76-2	3 - 5
Ethyl Alcohol	64-17-5	3 - 5
Propane	74-98-6	1 - 3
n-Butane	106-97-8	1 - 3
Non-hazardous and other components below reportable levels	80 - 90	

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops or persists.

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

medical attention if irritation develops or persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, get medical attention.

Ingestion Rinse mouth. If ingestion of a large amount does occur, call a poison control center

immediately.

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5. Fire Fighting Measures

Flammable properties

Extinguishing media

Vapor or gas may spread to distant ignition sources and flash back.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Protection of firefighters

Protective equipment and

precautions for firefighters

Suitable extinguishing media

Containers should be cooled with water to prevent vapor pressure build up.

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. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.

Storage

Level 1 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. Keep away from heat, sparks, and flame. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Keep out of the reach of children. 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
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established

OSHA

Components	CAS#	TWA	STEL	Ceiling
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established
Ethyl Alcohol	64-17-5	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established

Personal protective equipment

Eye / face protection

Wear chemical goggles.

Skin protection

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance

Compressed liquefied gas.

trade_name MSDS US **Boiling point** 206.6 °F (97.2 °C) estimated

Color Colorless.

Flammability (HOC) 3.7946 kJ/g estimated

Flash back No

Flash point -156 °F (-104.4 °C)

Form Aerosol.

Odor Butyl
pH 9.5 - 10.5

Physical state Liquid.

Pressure 66 - 76 psig @ 70F
Solubility Completely
Specific gravity 0.9572 estimated

10. Chemical Stability & Reactivity Information

Chemical stabilityStable at normal conditions.Conditions to avoidHeat, flames and sparks.

Incompatible materials None known.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological Information

Acute effectsAcute LD50: 5684 mg/kg estimated, Rat, DermalSensitizationNot expected to be hazardous by OSHA criteria.Reproductive effectsNot expected to be hazardous by OSHA criteria.TeratogenicityNot expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

LC50 28957 mg/L estimated, Fish, 96.00 Hours, EC50 43419 mg/L estimated, Daphnia, 48.00 Hours, IC50 12207 mg/L estimated, Algae, 72.00 Hours,

13. Disposal Considerations

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

Disposal instructionsContents under pressure. Do not puncture, incinerate or crush. Dispose of this material and its container at hazardous or special waste collection point. Do not allow this material

and its container at hazardous or special waste collection point. 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

Hazard class ORM-D Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306
Packaging non bulk 156, 306
Packaging bulk None

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IMDG

Basic shipping requirements:

Proper shipping name AEROSOLS

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptionsLTD QTYItem5FLabels requiredNoneTransport Category2



IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class 2.1 UN number 1950

Additional information:

Packaging exceptions LTD QTY
Labels required 2.1



15. Regulatory Information

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

Standard, 29 CFR 1910.1200.

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

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

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)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

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

Section 302 extremely No.

hazardous substance

Section 311 hazardous chemical Yes

Inventory status

Country(s) or regionInventory nameOn inventory (yes/no)*ChinaInventory of Existing Chemical Substances in China (IECSC)NoEuropeEuropean Inventory of New and Existing Chemicals (EINECS)YesEuropeEuropean List of Notified Chemical Substances (ELINCS)YesJapanInventory of Existing and New Chemical Substances (ENCS)No

Korea Existing Chemicals List (ECL) 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)

State regulations

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

 2-Butoxyethanol
 111-76-2
 Present

 Ethyl Alcohol
 64-17-5
 Present

 n-Butane
 106-97-8
 Present

 Propane
 74-98-6
 Present

trade_name MSDS US

Product #: 050 Gleme Glass Cleaner

16. Other Information

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

HMIS® ratings Health: 1 Flammability: 1

Physical hazard: 0

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.

MSDS sections updatedThis document has undergone significant changes and should be reviewed in its entirety.

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