28-GLEME



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number

Product name

Gleme Glass Cleaner

Effective date

10-Mar-2009

Claire Manufacturing

Company information

500 Vista Ave.

Addison, IL 60101 United States

Company phone

General Assistance 630-543-7600

Emergency telephone US Emergency telephone outside US 800-424-9300

Version #

703-527-3887 14

Supersedes date

04-Mar-2009

2. Hazards Identification

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

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 Ingestion

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

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.

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	<u> </u>	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.

5. Fire Fighting Measures

Flammable properties

Extinguishing media

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

Sultable extinguishing media

Protection of firefighters

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

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

ACG!H

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.

Product name: Gieme Glass Cleaner Product #: 049 Gleme Glass Cleaner MSDS US

Boiling point

206.6 °F (97.2 °C) estimated

Color

Colorless.

Flammability (HQC)

3.7946 kJ/g estimated

Flash back

No

Flash point

-156 °F (-104.4 °C)

Form Odor

Aerosoi. Butyl

pΗ Physical state 9.5 - 10.5 Liquid.

Pressure Solubility

66 - 76 psig @ 70F

Completely

Specific gravity

0.9572 estimated

10. Chemical Stability & Reactivity Information

Chemical stability

Stable at normal conditions.

Conditions to avoid

Reproductive effects

Heat, flames and sparks.

Incompatible materials

None known.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological Information

Acute effects Sensitization

Teratogenicity

Acute LD50: 5684 mg/kg estimated, Rat, Dermal Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by OSHA criteria.

Not 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 instructions

Contents 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 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 Additional information:

None

Packaging exceptions

156, 306

Packaging non bulk

156, 306

Packaging bulk

None

IMDG

Basic shipping requirements:

Proper shipping name

AEROSOLS

Hazard class

2.1

UN number

1950

Additional information:

Packaging exceptions

LTD QTY

Item

Labels required

5F

2

Transport Category

None

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 regulations

This 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

CERCLA (Superfund) reportable quantity

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 hazardous substance

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region inventory name On inventory (yes/no)* China Inventory of Existing Chemical Substances in China (IECSC) No Europe European Inventory of New and Existing Chemicals (EINECS) Yes Europe European List of Notified Chemical Substances (ELINCS) Yes Japan Inventory 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 Akcohol 64-17-5 Present n-Butane 106-97-8 Present Propane 74-98-6 Present

Product name: Gleme Glass Cleaner

MSDS US

Product #: 049 Gleme Glass Cleaner

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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 updated

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