

GLASS CLEANER

SECTION 1. IDENTIFICATION

| | |
|--------------------------------------|--|
| Product Identifier | GLASS CLEANER |
| Other Means of Identification | ESTEAM GLASS CLEANER |
| Product Family | mixture |
| Recommended Use | For use on glass/mirror surfaces. |
| Restrictions on Use | None known. |
| Manufacturer | Esteam Mfg Ltd, 3750 19th NE , Calgary , Alberta, T2E6V2, 403-291-7050, esteam.com |
| Emergency Phone No. | Canutec, 1-613-996-6666, 24 hr |
| Date of Preparation | May 15, 2018 |

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 2; Serious eye damage - Category 1

Label Elements



Signal Word:
Danger

Hazard Statement(s):

Causes skin irritation.
Causes serious eye damage.

Prevention:

Wash thoroughly after handling.
Wear eye protection/face protection.
Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
Immediately call a POISON CENTER or doctor.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | % | Other Identifiers | Other Names |
|--------------------|-----------|------|-------------------|-------------|
| 2-Butoxyethanol | 111-76-2 | 5-15 | | |
| Ammonium hydroxide | 1336-21-6 | 1-5 | | |

Notes

*The exact percentage (concentrations) of the substance in the mixture has been withheld as a trade secret.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Get medical advice or attention if you feel unwell or are concerned.

Skin Contact

Rinse with lukewarm, gently flowing water for 5 minutes. Contact a physician if irritation persists.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned. DO NOT induce vomiting unless directed to do so by medical personnel.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Specific Hazards Arising from the Product

Does not burn.

Special Protective Equipment and Precautions for Fire-fighters

As in any fire, wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not get in eyes, on skin or on clothing.

Conditions for Safe Storage

Store in the original, labelled, shipping container. Keep container tightly closed. Store in cool dry place. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

Appropriate Engineering Controls

General ventilation is usually adequate.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

It is good practice to wear chemical protective gloves.

Respiratory Protection

Respirator not required, general ventilation is usually adequate.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

| | |
|--|--|
| Appearance | Clear blue liquid. |
| Odor | Ammonia-like |
| Odor Threshold | Not available |
| pH | 10.9 |
| Melting Point/Freezing Point | Not applicable (melting); 0 °C (32 °F) (freezing) |
| Initial Boiling Point/Range | Not available |
| Flash Point | Not available |
| Evaporation Rate | Not available |
| Upper/Lower Flammability or Explosive Limit | Not available (upper); Not available (lower) |
| Vapor Pressure | Not available |
| Relative Density (water = 1) | 0.996 |
| Solubility | completely in water |
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not available |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity | Not available (kinematic); Not available (dynamic) |
| Other Information | |
| Physical State | Liquid |
| Surface Tension | Not available |

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Conditions to Avoid

Prolonged exposure to high temperatures.

Incompatible Materials

Oxidizing agents (e.g. peroxides).

Product Identifier: GLASS CLEANER - Ver. 1

SDS No.: 0383

Date of Preparation: May 15, 2018

Date of Last Revision:

Page 03 of 05

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

| Chemical Name | LC50 | LD50 (oral) | LD50 (dermal) |
|--------------------|--|------------------|--------------------|
| 2-Butoxyethanol | > 4.9 mg/L (rat) (4-hour exposure) (vapor) | 1300 mg/kg (rat) | > 2000 mg/kg (rat) |
| Ammonium hydroxide | 3670 ppm (rat) (4-hour exposure) | 350 mg/kg (rat) | |

Skin Corrosion/Irritation

May cause moderate or severe irritation based on information for closely related materials.

Serious Eye Damage/Irritation

May cause serious eye damage based on information for closely related materials.

Aspiration Hazard

Not known to be an aspiration hazard.

Respiratory and/or Skin Sensitization

Not a respiratory sensitizer. Not a skin sensitizer.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity

Development of Offspring

Does not cause harm.

Sexual Function and Fertility

Does not cause any effects.

Germ Cell Mutagenicity

Not known to be a mutagen.

SECTION 12. ECOLOGICAL INFORMATION

Persistence and Degradability

Readily Biodegradable.

Bioaccumulative Potential

This product and its degradation products are not expected to bioaccumulate.

Mobility in Soil

Studies are not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Product Identifier: GLASS CLEANER - Ver. 1

SDS No.: 0383

Date of Preparation: May 15, 2018

Date of Last Revision:

Page 04 of 05

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Product safety manager

Phone No. 403-291-7050

Date of Preparation May 15, 2018

References CHEMINFO database. Canadian Center for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Center for Occupational Health and Safety (CCOHS). Raw ingredient SDS's.

Disclaimer All information appearing herein is based upon data obtained from raw material manufacturers and/or recognized technical sources. While the information herein is believed to be true and accurate, we make no representation as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible to make their own investigation into the suitability of the information to their particular purposes. User assumes all risks of their handling, disposal and publication or use of the product, or reliance upon information contained herein. This information applies only to the product designated within this document and does not relate to its use in combination with any other chemical product. **READ THE LABEL** before using this or any product, and take any necessary precautions, dictated by the label or by common sense to ensure that your health is protected.

Product Identifier: GLASS CLEANER - Ver. 1

SDS No.: 0383

Date of Preparation: May 15, 2018

Date of Last Revision:

Page 05 of 05