# W.E. GREER LTD.

#### MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

Product Name Glass Cleaner Concentrate

CAS # Mixture

Product Use Glass Cleaner

Manufacturer W.E. Greer Ltd.
14704 - 119 Avenue

Edmonton, AB T5L 2P1 CA Phone (780) 451-1516 Fax (780) 451-0334

**CANUTEC** 1-613-996-6666

#### 2. Hazards Identification

Emergency Overview DANGER

Toxic.

MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Skin absorption, Inhalation, Ingestion.

**Eyes** May cause irritation.

**Skin** May cause irritation. This product may be harmful if it is absorbed through the skin.

NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether 111-76-2 Potential for dermal absorption Inhalation May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Target organs Blood. Eyes. Kidney. Liver. Respiratory system. Skin.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis. **Signs and symptoms** Symptoms are prostration, gasping, pallor, and uncoordinated movements.

Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

environmental concerns.

# 3. Composition/Information on Ingredients

Ingredient(s)	CAS#	Percent
Ethylene glycol monobutyl ether	111-76-2	30 - 60

#### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Immediately flush with cool water for 15 minutes while removing contaminated clothing

and shoes. Discard or wash well before reuse. Obtain medical attention if irritation

persists.

**Inhalation** If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical

attention. If breathing has stopped, trained personnel should administer CPR

immediately.

**Ingestion** Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce

risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice

Avoid contact with eyes and skin. Keep out of reach of children. Immediate medical attention is required. 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. If you feel unwell, seek medical advice (show the label where possible).

## 5. Fire-fighting Measures

Flammable properties

Not flammable by WHMIS criteria.

**Extinguishing media** 

Suitable extinguishing media Carbon dioxide. Alcohol foam. Dry chemical.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighers

Firefighters should wear full protective clothing including self contained breathing

apparatus.

**Hazardous combustion products** 

**Explosion data** 

May include and are not limited to: Oxides of carbon.

Sensitivity to mechanical impact Not available
Sensitivity to static discharge Not available

#### 6. Accidental Release Measures

**Personal precautions** Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

Do not discharge into lakes, streams, ponds or public waters.

Methods for containment

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements

or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

# 7. Handling and Storage

**Handling** Use good industrial hygiene practices in handling this material.

Do not get this material in your eyes, on your skin, or on your clothing.

When using do not eat or drink. Avoid contact with skin and clothing.

Avoid contact with eyes.

Avoid breathing vapours or mists of this product.

Keep container tightly closed.
Use only with adequate ventilation.
Wash thoroughly after handling.

**Storage** Keep out of the reach of children.

Store in a closed container away from incompatible materials.

Keep out of reach of children.

# 8. Exposure Controls / Personal Protection

**Exposure limit values** 

Ingredient(s) Exposure limit values

Ethylene glycol monobutyl ether ACGIH-TLV

TWA: 20 ppm

Engineering controls

General ventilation normally adequate.

Personal protective equipment

**Eye/Face protection** Wear chemical goggles. **Hand protection** Avoid contact with the skin.

Rubber gloves. Confirm with a reputable supplier first.

**Skin and body protection** As required by employer code.

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Respiratory protection

General hygiene considerations

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

When using do not eat or drink.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

Liquid **Appearance** Colour Clear blue Liquid **Form** Odour Ammonia Odour threshold Not available Physical state Liquid

рH 9.68 - 10.32 (100%)

Not available Freezing point **Boiling point** Not available Not available Pour point **Evaporation Rate** Not available

> 95 °C (> 203.00 °F) TCC Flash point

**Auto-ignition temperature** Flammability limits in air, lower, %

Not available Not available

by volume

Flammability Limits in Air, Upper, %

Not available

by Volume

Vapour pressure Not available Vapour density Not available 0.865 - 1.007 Specific gravity Not available Octanol/water coefficient

## 10. Stability and Reactivity

Stable under recommended storage conditions.

Reactivity This product may react with strong oxidizing agents.

Hazardous polymerisation does not occur. Possibility of hazardous reactions

Conditions to avoid Do not mix with other chemicals. Incompatible materials Strong oxidizing agents. Acids.

Hazardous decomposition products May include and are not limited to: Oxides of carbon.

# 11. Toxicological Information

Component analysis - LC50

Chemical stability

**LC50** Ingredient(s)

Ethylene glycol monobutyl ether 2.21 mg/l/4h rat

Component analysis - Oral LD50

**LD50** Ingredient(s)

Ethylene glycol monobutyl ether 470 mg/kg rat; 320 mg/kg rabbit

Effects of acute exposure

May cause irritation. Eye

May cause irritation. This product may be harmful if it is absorbed through the skin. Skin

**NIOSH - Pocket Guide - Skin Notations** 

Ethylene glycol monobutyl ether 111-76-2 Potential for dermal absorption Inhalation May cause respiratory tract irritation.

Harmful if swallowed. May cause stomach distress, nausea or vomiting. Ingestion

Sensitisation Non-hazardous by WHMIS criteria.

Local effects Toxic in contact with skin.

Chronic effects Non-hazardous by WHMIS criteria. Carcinogenicity See below.

**ACGIH - Threshold Limit Values - Carcinogens** 

Ethylene glycol monobutyl ether 111-76-2 A3 - Confirmed animal carcinogen with unknown relevance to humans.

IARC - Group 3 (Not Classifiable)

Ethylene glycol monobutyl ether 111-76-2 Monograph 88 [2006]

Mutagenicity Non-hazardous by WHMIS criteria.

Reproductive effects Non-hazardous by WHMIS criteria.

Teratogenicity Non-hazardous by WHMIS criteria.

Name of Toxicologically Synergistic Not available

**Products** 

# 12. Ecological Information

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

concerns.

**Ecotoxicity - Freshwater Fish - Acute Toxicity Data** 

Ethylene glycol monobutyl ether 111-76-2 96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr LC50 Lepomis

macrochirus: 2950 mg/L

**Ecotoxicity - Water Flea - Acute Toxicity Data** 

Ethylene glycol monobutyl ether 111-76-2 24 Hr EC50 Daphnia magna: 1698 - 1940 mg/L; 48 Hr EC50 Daphnia magna: >1000

mg/L

Persistence and degradability Not available Not available Bioaccumulation/accumulation Mobility in environmental media Not available Not available **Environmental effects** Not available Aquatic toxicity Partition coefficient Not available Chemical fate information Not available Other adverse effects Not available

# 13. Disposal Considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

# 14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (2-Butoxyethanol)

Hazard class 6.1
UN number UN2810
Packing group III

Additional information:

Special provisions 16



# 15. Regulatory Information

#### Canadian federal regulations

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

Canada - CEPA - Schedule I - List of Toxic Substances

Ethylene glycol monobutyl ether 111-76-2 Present

Canada - WHMIS - Ingredient Disclosure List

Ethylene glycol monobutyl ether 111-76-2 1 %

WHMIS classification Class D - Division 1B, 2B

WHMIS status Controlled

WHMIS labeling



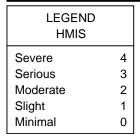
#### **Inventory Status**

Country(s) or region Inventory Name On Inventory (Yes/No)\*

CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)Yes

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

#### 16. Other Information





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

Other Information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

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