

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Grime-Master
CAS # Mixture
Product Use Cleaner & Degreaser
Supplier Wipeout Specialty Cleaning Inc.
754 Francis Road
Burlington, ON L7T 4A3
Phone: (877) 633 9257
(613) 996-6666

CANUTEC

LEGEND HMIS	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 3
Flammability	0
Physical Hazard	0
Personal Protection	B

2. Hazards Identification

Emergency Overview DANGER
CAUSES SKIN AND EYE BURNS. Contains a potential mutagen.

Potential short term health effects

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

Eyes Causes chemical burns. May cause blindness.

Skin Causes chemical burns. Harmful contact may not cause immediate pain. May be 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 chemical burns to mouth, throat and stomach.

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

Chronic effects Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.

Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Ethanol	64-17-5	0.1 - 1
Sodium metasilicate	6834-92-0	1 - 5
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	1 - 5
Ethylene glycol monobutyl ether	111-76-2	1 - 5
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5
Tetrapotassium pyrophosphate	7320-34-5	3 - 7

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 water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Obtain medical attention. Never give anything by mouth if victim is unconscious, or is convulsing.
Notes to physician	Symptoms may be delayed.
General advice	If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of phosphorus. Oxides of nitrogen.
Explosion data	
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.
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.
Storage	Keep out of the reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C9-11, ethoxylated	ACGIH-TLV Not established
Ethanol	ACGIH-TLV TWA: 1000 ppm
Ethylene glycol monobutyl ether	ACGIH-TLV TWA: 20 ppm
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	ACGIH-TLV Not established
Sodium metasilicate	ACGIH-TLV TWA: 10 mg/m ³
Tetrapotassium pyrophosphate	ACGIH-TLV Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye/Face protection

Wear chemical goggles.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection

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

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Clear mauve
Form	Liquid
Odour	mild ether
Odour threshold	Not available
Physical state	Liquid
pH	13.1 (100%)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Flash point	None
Evaporation Rate	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability Limits in Air, Upper, % by Volume	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.08
Octanol/water coefficient	Not available
Solubility (H₂O)	Complete
Auto-ignition temperature	Not applicable
VOC (Weight %)	Not available
Viscosity	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Reacts violently with acids. This product may react with oxidizing agents. Do not mix with other chemicals.
Incompatible materials	Acids. Oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of phosphorus. Oxides of nitrogen.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C9-11, ethoxylated	5 mg/l/4h rat
Ethanol	31623 ppm rat
Ethylene glycol monobutyl ether	2.21 mg/l/4h rat
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Not available
Sodium metasilicate	Not available
Tetrapotassium pyrophosphate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C9-11, ethoxylated	1200 mg/kg rat
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Ethylene glycol monobutyl ether	470 mg/kg rat; 320 mg/kg rabbit
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	426 mg/kg rat
Sodium metasilicate	1153 mg/kg rat
Tetrapotassium pyrophosphate	4000 mg/kg rat

Effects of acute exposure

Eye	Causes chemical burns. May cause blindness.
Skin	Causes chemical burns. Harmful contact may not cause immediate pain. May be 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 chemical burns to mouth, throat and stomach.

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects Non-hazardous by WHMIS criteria.

Carcinogenicity See below.

ACGIH - Threshold Limit Values - Carcinogens

Ethanol 64-17-5 A4 - Not Classifiable as a Human Carcinogen
Ethylene glycol monobutyl ether 111-76-2 A3 - Confirmed animal carcinogen with unknown relevance to humans.

IARC - Group 1 (Carcinogenic to Humans)

Ethanol 64-17-5 Monograph 96 [2007] (in alcoholic beverages)

IARC - Group 3 (Not Classifiable)

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

Mutagenicity Mutagenic effects were observed in somatic and reproductive cells of live animals (rats and mice) exposed to high oral doses of ethanol.

Reproductive effects Non-hazardous by WHMIS criteria.

Teratogenicity

Animal studies demonstrate that ingestion of ethanol can cause embryotoxicity, teratogenicity and fetotoxicity in the presence of maternal toxicity.

12. Ecological Information

Ecotoxicity

Components of this product have been identified as having potential environmental concerns.

Ecotoxicity - Freshwater Fish Species Data

Ethanol	64-17-5	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 12.0-16.0 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : >100 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 13400-15100 mg/L [flow-through]
Ethylene glycol monobutyl ether	111-76-2	96 Hr LC50 <i>Lepomis macrochirus</i> : 1490 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : 2950 mg/L
Sodium metasilicate	6834-92-0	96 Hr LC50 <i>Brachydanio rerio</i> : 210 mg/L [semi-static]; 96 Hr LC50 <i>Brachydanio rerio</i> : 210 mg/L
Tetrapotassium pyrophosphate	7320-34-5	96 Hr LC50 <i>Oncorhynchus mykiss</i> : >100 mg/L

Ecotoxicity - Microtox Data

Ethanol	64-17-5	5 min EC50 <i>Photobacterium phosphoreum</i> : 35470 mg/L; 30 min EC50 <i>Photobacterium phosphoreum</i> : 34634 mg/L
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Ecotoxicity - Water Flea Data

Ethanol	64-17-5	48 Hr LC50 <i>Daphnia magna</i> : 9268 mg/L; 24 Hr EC50 <i>Daphnia magna</i> : 10800 mg/L
Ethylene glycol monobutyl ether	111-76-2	24 Hr EC50 water flea: 1720 mg/L; 24 Hr LC50 <i>Daphnia magna</i> : 1698-1940 mg/L
Sodium metasilicate	6834-92-0	96 Hr EC50 <i>Daphnia magna</i> : 216 mg/L
Tetrapotassium pyrophosphate	7320-34-5	48 Hr EC50 water flea: >100 mg/L

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

13. Disposal Considerations

Waste codes	Not available
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	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate)
Hazard class	8
UN number	UN3266
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

Ethanol 64-17-5 0.1 %
Ethylene glycol monobutyl ether 111-76-2 1 %
Sodium metasilicate 6834-92-0 1 %

WHMIS classification Class D - Division 2A, Class E - Corrosive Material

WHMIS status Controlled

WHMIS labeling



Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-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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