



MATERIAL SAFETY DATA SHEET

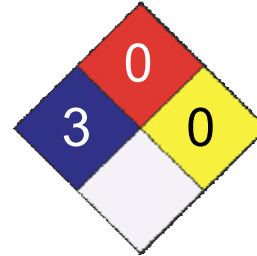
1. Product and Company Identification

Product Name Problem Wax Stripper
CAS # Mixture
Product Use Floor stripper
Manufacturer Frank's Maintenance Products Inc.
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CANUTEC

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

Health	* 3
Flammability	0
Physical Hazard	0
Personal Protection	C



2. Hazards Identification

Emergency Overview DANGER -- CORROSIVE

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. This product may be harmful if it is absorbed through the skin.

Inhalation May cause respiratory tract irritation or chemical burns.

Ingestion Acute oral exposure of monoethanolamine has caused necrosis of the gastric and intestinal mucosa.

Target organs Eyes. Respiratory system. Skin. Gastrointestinal tract.
Based on published data, if contact is repeated and prolonged, monoethanolamine may cause liver and kidney damage. These effects have not been observed in humans.

Chronic effects This product may be harmful if it is absorbed through the skin. 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
Sodium hydroxide	1310-73-2	1 - 5
Propylene glycol monomethyl ether	107-98-2	10 - 30
Monoethanolamine	141-43-5	10 - 30

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. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

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**

Carbon dioxide. Alcohol foam. Polymer foam. Dry chemical powder.

Unsuitable extinguishing media

Water.

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 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**

Monoethanolamine

ACGIH-TLV

TWA: 3 ppm

STEL: 6 ppm

Propylene glycol monomethyl ether

ACGIH-TLV

TWA: 100 ppm

STEL: 150 ppm

Sodium hydroxide

ACGIH-TLV

Ceiling: 2 mg/m³

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. Use of an impervious apron is recommended.

Respiratory protection

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

General hygiene considerations

Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical & Chemical Properties

Appearance	Clear.
Colour	Colourless
Form	Liquid
Odour	Fresh
Odour threshold	Not available
Physical state	Liquid
pH	13 - 13.5
Freezing point	Not available
Boiling point	Not available
Flash point	Not flammable
Evaporation Rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Not available
Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

10. Chemical Stability & Reactivity Information

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 nitrogen.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Monoethanolamine	1210 mg/m3 mouse
Propylene glycol monomethyl ether	54.6 mg/l/4h rat
Sodium hydroxide	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Monoethanolamine	1720 mg/kg rat; 700 mg/kg mouse
Propylene glycol monomethyl ether	3739 mg/kg rat
Sodium hydroxide	Not available

Effects of acute exposure

Eye	Causes chemical burns. May cause blindness.
Skin	Causes chemical burns. This product may be harmful if it is absorbed through the skin.
Inhalation	May cause respiratory tract irritation or chemical burns.
Ingestion	Acute oral exposure of monoethanolamine has caused necrosis of the gastric and intestinal mucosa.

Sensitisation

Non-hazardous by WHMIS criteria.

Chronic effects

Based on published data, if contact is repeated and prolonged, 2-aminoethanol may cause liver and kidney damage. These effects have not been observed in humans.

Carcinogenicity

Non-hazardous by WHMIS criteria.

Mutagenicity

Non-hazardous by WHMIS criteria.

Reproductive effects

Non-hazardous by WHMIS criteria.

Teratogenicity

Non-hazardous by WHMIS criteria.

12. Ecological Information

Ecotoxicity

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

Ecotoxicity - Freshwater Algae Data

Monoethanolamine 141-43-5 72 Hr EC50 Scenedesmus subspicatus: 15 mg/L

Ecotoxicity - Freshwater Fish Species Data

Monoethanolamine 141-43-5 96 Hr LC50 Pimephales promelas: 227 mg/L [flow-through]; 96 Hr LC50 Brachydanio rerio: 3684 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 329.16 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 150 mg/L [static]

Propylene glycol monomethyl ether 107-98-2 96 Hr LC50 Pimephales promelas: 20.8 g/L [static]; 96 Hr LC50 Leuciscus idus: 4600-10000 mg/L [static]

Sodium hydroxide 1310-73-2 96 Hr LC50 Oncorhynchus mykiss: 45.4 mg/L [static]

Ecotoxicity - Microtox Data

Monoethanolamine 141-43-5 30 min EC50 Photobacterium phosphoreum: 13.7 mg/L; 17 Hr EC50 Pseudomonas putida: 110 mg/L; 2 Hr EC50 Nitrosomonas: 12200 mg/L

Ecotoxicity - Water Flea Data

Monoethanolamine 141-43-5 48 Hr EC50 Daphnia magna: 65 mg/L

Propylene glycol monomethyl ether 107-98-2 96 Hr EC50 water flea: 10457 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, N.O.S. (Monoethanolamine)
Hazard class	8
UN number	UN1760
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 - WHMIS - Ingredient Disclosure List

Monoethanolamine	141-43-5	1 %
Propylene glycol monomethyl ether	107-98-2	1 %
Sodium hydroxide	1310-73-2	1 %

WHMIS classification

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)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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

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