

#### **MATERIAL SAFETY DATA SHEET**

## 1. Product and Company Identification

Product Name Crystal Clear

CAS # Mixture

Product Use Glass Cleaner

**Manufacturer** Frank's Maintenance Products Inc.

1299 Strasburg Rd Kitchener, Ontario N2R 1H2 Canada Phone (519) 748-4433 Fax (519) 748-5397

**CANUTEC** 

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





### 2. Hazards Identification

Emergency Overview WARNING

EYE AND SKIN IRRITANT.

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.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness).

**Ingestion** May cause stomach distress, nausea or vomiting.

**Target organs** Eyes. Skin. Respiratory system.

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

Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

# 3. Composition/Information on Ingredients

Ingredient(s)	CAS#	Percent
Propylene glycol monomethyl ether	107-98-2	1 - 5
Isopropanol	67-63-0	1 - 5

### 4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

**Skin contact** Flush with cool 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. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

**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

Dry chemical. Alcohol foam. Carbon dioxide.

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** 

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available

#### 6. Accidental Release Measures

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

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

Remove sources of ignition. 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.

**Storage** 

Keep out of reach of children. Do not store at temperatures above 120°F (49°C). Store in a closed container away from incompatible materials.

# 8. Exposure Controls / Personal Protection

#### **Exposure limit values** Ingredient(s)

**Exposure limit values** 

Isopropanol **ACGIH-TLV** TWA: 200 ppm

STEL: 400 ppm

Propylene glycol monomethyl ether **ACGIH-TLV** 

> TWA: 100 ppm STEL: 150 ppm

**Engineering controls** 

Personal protective equipment

General ventilation normally adequate.

**Eye/Face protection** 

Wear safety glasses with side shields.

**Hand protection** 

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Respiratory protection Where exposure quideline levels may be exceeded, use an approved NIOSH respirator.

## 9. Physical and Chemical Properties

Liquid **Appearance** Colour Blue Liquid **Form** 

Odour Not available **Odour threshold** Not available Physical state Liquid 9.5 - 10.5На Not available Freezing point **Boiling point** Not available Flash point Not available Not available **Evaporation Rate** 

Flammability limits in air, lower, %

by volume

Not available

Flammability Limits in Air, Upper, % Not available

by Volume

Not available Vapour pressure Vapour density Not available Not available Specific gravity Not available Octanol/water coefficient Solubility (H2O) Not available Not available **Auto-ignition temperature** Not available **Viscosity** Percent volatile Not available

## 10. Stability and Reactivity

**Chemical stability** Stable under recommended storage conditions.

Avoid high temperatures. Do not mix with other chemicals. Conditions to avoid

Incompatible materials Caustics. Acids. Oxidizers.

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

Hazardous polymerisation does not occur. Possibility of hazardous reactions

# 11. Toxicological Information

LC50

Ingredient(s)

Isopropanol 16970 mg/l/4h rat Propylene glycol monomethyl ether 54.6 mg/l/4h rat

Component analysis - Oral LD50

Ingredient(s) **LD50** Isopropanol 4396 mg/kg rat

Propylene glycol monomethyl ether 3739 mg/kg rat

Effects of acute exposure

Eve May cause irritation.

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

Excessive intentional inhalation may cause respiratory tract irritation and central Inhalation

nervous system effects (headache, dizziness).

Ingestion May cause stomach distress, nausea or vomiting.

Sensitisation Non-hazardous by WHMIS criteria. **Chronic effects**Non-hazardous by WHMIS criteria. **Carcinogenicity**Non-hazardous by WHMIS criteria.

**ACGIH - Threshold Limit Values - Carcinogens** 

Isopropanol 67-63-0 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 3 (Not Classifiable)

Isopropanol 67-63-0 Monograph 71 [1999], Supplement 7 [1987], Monograph 15 [1977]

MutagenicityNon-hazardous by WHMIS criteria.Reproductive effectsNon-hazardous by WHMIS criteria.TeratogenicityNon-hazardous by WHMIS criteria.

## 12. Ecological Information

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

concerns.

**Ecotoxicity - Freshwater Algae Data** 

Isopropanol 67-63-0 96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus

subspicatus: >1000 mg/L

**Ecotoxicity - Freshwater Fish Species Data** 

Isopropanol 67-63-0 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales

promelas:11130 mg/L[ static ]

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

idus:4600-10000 mg/L[ static ]

**Ecotoxicity - Microtox Data** 

Isopropanol 67-63-0 5 min EC50 Photobacterium phosphoreum: 35390 mg/L

**Ecotoxicity - Water Flea Data** 

Isopropanol 67-63-0 48 Hr EC50 Daphnia magna: 13299 mg/L

Propylene glycol monomethyl 107-98-2 96 Hr EC50 water flea: 10457 mg/L

ther

ether

Not available **Environmental effects Aquatic toxicity** Not available Persistence and degradability Not available Bioaccumulation/accumulation Not available Not available Partition coefficient Not available Mobility in environmental media 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)

Not regulated as dangerous goods.

## 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

Isopropanol 67-63-0 1 % Propylene glycol monomethyl 107-98-2 1 %

ether

WHMIS classification Class D - Division 2B

WHMIS status Controlled

#### WHMIS labeling



#### **Inventory Status**

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

Canada Domestic Substances List (DSL)

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

Yes

use of or reliance on any information contained in this document.

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**Prepared by** Technical Department (800) 265-6535