

KRYO-KLEEN

SECTION 1. IDENTIFICATION

Product Identifier	KRYO-KLEEN
Other Means of Identification	Freezer cleaner
Other Identification	0990
Recommended Use	Freezer cleaner.
Manufacturer/Supplier Identifier	Lalema inc., 11450 Sherbrooke Street East, Montreal East, Quebec, H1B 1C1, 514.645.2753, www.lalema.com
Emergency Phone No.	Canutec, +1 613.996.6666, 24/7 Quebec Poison Control Centre, 1.800.463.5060
SDS No.	0259

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 3; Skin irritation - Category 2; Serious eye damage - Category 1; Specific target organ toxicity (single exposure) - Category 3

Label Elements



Signal Word:

Danger

Hazard Statement(s):

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye damage.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Precautionary Statement(s):

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical, ventilating, and lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of water.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTRE or doctor.
 Call a POISON CENTRE or doctor if you feel unwell.
 Specific treatment (see supplemental first aid instruction on this label).
 If skin irritation occurs: Get medical advice or attention.
 Take off contaminated clothing and wash it before reuse.
 In case of fire: Use appropriate foam, carbon dioxide, dry chemical powder to extinguish.
Storage:
 Store in a well-ventilated place. Keep container tightly closed.
 Store in a well-ventilated place. Keep cool.
 Store locked up.
Disposal:
 Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Ethyl alcohol	64-17-5	60 - 75	
Monoethanolamine	141-43-5	0.1 - 3.0	
Alcohols, C9-11, ethoxylated	68439-46-3	0.1 - 3.0	

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

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. Get medical advice or attention if you feel unwell or are concerned.

Eye Contact

Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Ingestion

Rinse mouth with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Immediately call a Poison Centre or a doctor.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

Causes serious eye damage.

Immediate Medical Attention and Special Treatment

Target Organs

Nervous system.

Special Instructions

Not applicable.

Medical Conditions Aggravated by Exposure

None known.

SECTION 5. FIRE-FIGHTING MEASURES

Product Identifier: KRYO-KLEEN
 SDS No.: 0259
 Date of Preparation: septembre 04, 2018

Extinguishing Media

Suitable Extinguishing Media

Dry chemical. Carbon dioxide. Alcohol-resistant foam.

Unsuitable Extinguishing Media

Water is not effective for extinguishing a fire. It may not cool product below its flash point.

Specific Hazards Arising from the Product

No information available.

Chlorine gas carbon oxides.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing apparatus and protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use appropriate protective equipment.

Environmental Precautions

It is good practice to prevent releases into the environment.

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

Avoid breathing vapours. Wash hands before eating, drinking or smoking. Avoid contact with eyes, skin and clothing.

Conditions for Safe Storage

Keep container tightly closed and in a well-ventilated place. Store away from heat and light.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Monoethanolamine	3 ppm	6 ppm	6 mg/m3			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Colourless liquid.
Odour	Alcoholic
pH	10.70 - 12.30
Melting Point/Freezing Point	Not available (freezing)
Initial Boiling Point/Range	82.0 - 82.3 °C
Flash Point	Not available
Evaporation Rate	Not available
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	0.795 - 0.905 at 20 °C
Solubility	Soluble in water

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Strong acids (e.g. hydrochloric acid), strong oxidizing agents (e.g. perchloric acid).

Hazardous Decomposition Products

Carbon oxides. Smoke.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; skin absorption; eye contact; ingestion.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Ethyl alcohol	Not available	7060 mg/kg (rat)	20000 mg/kg (rabbit)
Monoethanolamine	> 1.48 mg/L (rat) (4-hour exposure) (vapour)	1089 mg/kg (rat)	2504 mg/kg (rat)
Alcohols, C9-11, ethoxylated	Not available	1400 mg/kg (rat)	> 5000 mg/kg (rat)

Skin Corrosion/Irritation

Causes skin irritation.

Serious Eye Damage/Irritation

Corrosive to eyes.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause drowsiness or dizziness. The substance or mixture is classified as specific target organ toxicant category 3 with narcotic effects.

Skin Absorption

No information was located.

Ingestion

No information was located.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause drowsiness and dizziness.

Respiratory and/or Skin Sensitization

No information was located.

Germ Cell Mutagenicity

Not known to be a mutagen.

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

This section is not required by WHMIS 2015.

Special Precautions Not applicable

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

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

This section is not required by WHMIS.

SECTION 16. OTHER INFORMATION

SDS Prepared By Lalema inc. Laboratory

Date of Preparation septembre 04, 2018

Date of Last Revision octobre 31, 2018

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