

Revision Date: 13.09.2022

SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations (SOR/2015-17)

1. Identification

Identification

Product name: FREEZEMASTER™ ANTIFREEZE

Additional identification

Chemical name: Antifreeze

Recommended use and restriction on use

Recommended use: Fire Sprinkler Antifreeze

Restrictions on use: None identified.

Details of the supplier of the safety data sheet

Supplier

Company Name: LUBRIZOL CANADA LIMITED Address: 6-14845 Yonge Street, Suite 118

Aurora, Ontario, L4G 6H8

CA

Telephone: 905.264.4646

Emergency telephone number:

FOR TRANSPORT EMERGENCY CALL CHEMTREC 24-HOUR NUMBER (+1)703 527 3887 OR WITHIN CANADA 1 800 424 9300 (CCN13437)

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements:

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements: Not applicable

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	Percent by Weight **
Glycerin	56-81-5	10 - 30%

^{**} The actual concentrations listed in the section have been withheld as proprietary or due to batch to batch variability in concentration.



Revision Date: 13.09.2022

4. First-aid measures

Ingestion: Treat symptomatically. Get medical attention.

Inhalation: Remove exposed person to fresh air if adverse effects are observed.

Skin Contact: Wash with soap and water. If skin irritation occurs, get medical attention.

Eye contact: Any material that contacts the eye should be washed out immediately with

water. If easy to do, remove contact lenses.

Most important symptoms/effects, acute and delayed

Symptoms: See section 11.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water

fog.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

See section 10 for additional information.

Special protective equipment and precautions for fire-fighters

Special fire-fighting

procedures:

No data available.

Special protective

equipment for fire-fighters:

Recommend wearing self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

No data available.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Check on local, national

and international regulatory information to determine any reporting

requirements for spills.

Methods and material for containment and cleaning up: Dike far ahead of larger spill for later recovery and disposal. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert

material.



Revision Date: 13.09.2022

7. Handling and storage

Precautions for safe handling: Observe good industrial hygiene practices. Provide adequate ventilation.

Wear appropriate personal protective equipment.

Maximum Handling

Temperature:

Not determined.

Conditions for safe storage,

including any incompatibilities:

Store away from incompatible materials. See section 10 for incompatible

materials.

Maximum Storage

Temperature:

Not determined.

8. Exposure controls/personal protection

Control Parameters:

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Glycerin - Respirable	TWA	3 mg/m3	US. ACGIH Threshold Limit Values, as
particles.			amended (01 2021)
Glycerin - Inhalable	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as
particles.			amended (01 2021)
Glycerin - Total dust. PEL	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000), as
			amended (02 2006)
Glycerin - Respirable	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air
fraction.			Contaminants (29 CFR 1910.1000), as
		amended (02 2006)	
Glycerin - Respirable	TWA	15 millions	US. OSHA Table Z-3 (29 CFR
fraction.	of particles	1910.1000), as amended (09 2016)	
		per cubic	
	foot of air		
Glycerin - Total dust. TWA	TWA	50 millions	US. OSHA Table Z-3 (29 CFR
		of particles	1910.1000), as amended (09 2016)
		per cubic	
	foot of air		
Glycerin - Respirable	TWA	5 mg/m3	US. OSHA Table Z-3 (29 CFR
fraction.			1910.1000), as amended (09 2016)
Glycerin - Total dust. TWA	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR
			1910.1000), as amended (09 2016)

Appropriate engineering

controls:

No special requirements under ordinary conditions of use and with

adequate ventilation.

Individual protection measures, such as personal protective equipment

General information: Use personal protective equipment as required.

Eye/face protection: If contact is likely, safety glasses with side shields are recommended.

Skin Protection

Hand Protection: Suitable gloves can be recommended by the glove supplier.



Revision Date: 13.09.2022

Other: No data available.

Respiratory Protection: Consult with an industrial hygienist to determine the appropriate respiratory

protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing to remove contaminants. Discard contaminated

footwear that cannot be cleaned.

9. Physical and chemical properties

Appearance

Physical state:liquidForm:liquidColor:Blue

Odor: Characteristic
Odor threshold: No data available.
pH: 7 - 8 (100 %)
Freezing point: No data available.
Boiling Point: No data available.

Flash Point: > 94 °C (Pensky-Martens Closed Cup)

Evaporation rate:No data available. **Flammability (solid, gas):**No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

Vapor pressure:

Vapor density:

Relative density:

No data available.

Solubility(ies)

Solubility in water: Soluble

Solubility (other):

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

Viscosity:

No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Will not occur.



Revision Date: 13.09.2022

Conditions to avoid: Not determined.

Incompatible Materials: Strong oxidizing agents. Amines. Mercaptans. Reducing agents. Oxidizing

agents.

Hazardous Decomposition

Products:

Thermal decomposition or combustion may generate smoke, carbon monoxide, carbon dioxide, and other products of incomplete combustion.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: Avoid inhalation of mists or vapors.

Skin Corrosion/Irritation:

Product: Remarks: Not classified as a primary skin irritant. Prolonged or

repeated exposure may cause a slight flaking, tenderness, and

softening of skin.

Serious Eye Damage/Eye Irritation:

Product: Remarks: Not classified as a primary eye irritant.

Respiratory sensitization:

No data available

Skin sensitization:

No data available

Specific Target Organ Toxicity - Single Exposure:

No data available

Aspiration Hazard:

No data available

Chronic Effects

Carcinogenicity:

No data available



Revision Date: 13.09.2022

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity:

No data available

Reproductive toxicity:

No data available

Specific Target Organ Toxicity - Repeated Exposure:

Product: Repeated excessive ingestion may cause central nervous system

effects.

12. Ecological information

Ecotoxicity

Fish

Glycerin LC 50 (Golden Orfe, 2 d): > 10,000 mg/l

Aquatic Invertebrates

Glycerin EC 50 (Water flea (Daphnia magna), 1 d): > 10,000 mg/l

Toxicity to Aquatic Plants

No data available

Toxicity to soil dwelling organisms

No data available

Sediment Toxicity

No data available

Toxicity to Terrestrial Plants

No data available

Toxicity to Above-Ground Organisms

No data available

Toxicity to microorganisms

Glycerin NOEC (Bacteria, 16 h): > 10,000 mg/l

Persistence and Degradability

Biodegradation

Glycerin OECD TG 301 D, 90 %, 28 d, Readily biodegradable

Bioaccumulative potential

Bioconcentration Factor (BCF)

No data available



Revision Date: 13.09.2022

Partition Coefficient n-octanol / water (log Kow)

Glycerin Log Kow: -1.76 (Measured)

Mobility:

No data available

Other adverse effects

No data available

13. Disposal considerations

Disposal instructions: Treatment, storage, transportation, and disposal must be in accordance

with applicable Federal, State/Provincial, and Local regulations.

Since emptied containers retain product residue, follow label warnings even

after container is emptied.

Contaminated Packaging: Container packaging may exhibit hazards.

14. Transport information

TDG

Not regulated.

IMDG

Not regulated.

IATA

Not regulated.

Transport in bulk according to Annex II of MARPOL and the IBC Code

None known.

Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. For transportation, steps must be taken to prevent load shifting or materials falling, and all relating legal statutes should be obeyed. Review classification requirements before shipping materials at elevated temperatures.

15. Regulatory information

HMIRA Status

Not Registered

Inventory Status

Australia (AIIC)

All components are in compliance with chemical notification requirements in Australia.

Canada (DSL/NDSL)

May require notification before sale under Canadian regulations.

China (IECSC)

All components of this product are listed on the Inventory of Existing Chemical Substances in China.



Revision Date: 13.09.2022

European Union (REACh)

To obtain information on the REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Great Britain (UK REACH)

To obtain information on the UK REACH compliance status of this product, please e-mail REACH@SDSInquiries.com.

Japan (ENCS)

This product contains a substance that is not listed on the Japanese Existing and New Chemical Substances (ENCS) list.

Korea (ECL)

This product requires notification before sale in Korea.

New Zealand (NZIoC)

This product requires notification before sale in New Zealand.

Philippines (PICCS)

This product requires notification before sale in the Philippines.

Switzerland (SWISS)

All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.

Taiwan (TCSCA)

All components of this product are listed on the Taiwan inventory.

Turkey (KKDIK)

To obtain information on the KKDIK compliance status of this product, please e-mail REACH@SDSInquiries.com.

United States (TSCA)

All substances contained in this product are listed on the TSCA inventory or are exempt.

The information that was used to confirm the compliance status of this product may deviate from the chemical information shown in Section 3.

16.Other information, including date of preparation or last revision

HMIS Hazard ID

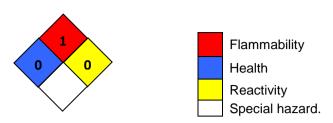


Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect



Revision Date: 13.09.2022

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

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Version #: 3.0

Source of information: Internal company data and other publically available resources.

Further Information: Contact supplier (see Section 1)

Revision(s) are noted by the double bar in the margin and the light gray box.

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assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains

the responsibility of the user.