

Material Safety Data Sheet

Company and Contact Information		
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Identification – Section I	HMIS Rating
Product Name: FRIGO® winter additive	0-Minimal 1-Slight 2- Moderate 3- Serious 4-Extreme
Chemical Family: Alcohols	HEALTH: 1
Formula: N/A	FLAMMABILITY: 3
CAS Number: N/A	PHYSICAL HAZARD: 0
	PERSONAL PROTECTION: B

Hazard Identification – Section II	
Hazard Summary:	Flammable liquid and vapor. May be fatal or cause blindness if swallowed. Harmful if inhaled or absorbed through the skin. Causes irritation to skin, eyes, and respiratory tract. Affects central nervous system. Cannot be made non-poisonous.
Signal Word:	POISON. DANGER.
Eyes:	Liquid and vapor may cause eye irritation. Symptoms of exposure may include: eye irritation, burning sensation, pain, watering, and/or change in vision.
Inhalation:	May cause respiratory tract irritation. Symptoms may include: nausea, dizziness, headache, stupor, uncoordinated or strange behavior or unconsciousness.
Skin (Dermal):	Prolonged or repeated contact may cause drying, which may result in skin irritation or dermatitis (rash). Can be harmful if absorbed through the skin.
Ingestion (Swallowing):	Poisonous! May be fatal if swallowed. Ingestion may have a narcotic effect including signs of CNS depression such as dizziness, headache, drowsiness, loss of coordination, and fatigue. May cause blindness or death.
Chronic Overexposure:	Marked impairment of vision has been reported. Repeated or prolonged exposure may cause skin irritation.
Aggravated Conditions:	Preexisting eye, skin, and respiratory conditions may be aggravated by exposure to this product.
OSHA Regulatory Status:	This material is considered hazardous by the Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200).

Ingredients – Section III			
Chemical Name/Common Name	CAS NO	PERCENT	OSHA PEL/ACGIH TLV
Carbinol, Wood alcohol, CH3OH	67-56-1	85 - 99	200ppm/200ppm

First-Aid Measures – Section IV	
Eyes:	Remove contact lenses. Rinse immediately with plenty of water, also under eyelids, for at least 15 minutes. Get medical attention.
Skin Contact (Dermal):	Remove contaminated clothing and shoes. Flush skin with water. If skin irritation occurs, get medical attention. Do not reuse clothing until cleaned.
Inhalation:	Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion (Swallowing):	Never give anything by mouth to an unconscious person. Otherwise, give two glasses of water to dilute chemical. Get medical attention. Do not induce vomiting.
Notes to physician:	Effects may be delayed. Ethanol may inhibit metabolism.

Fire-Fighting Measures – Section V		
Flash Point: 12°C (52°F)	LEL: 6.0%	UEL: 36.0 %
Extinguishing Media: Carbon dioxide blanket, Dry chemical, Water spray, Foam. SMALL FIRES: Any extinguisher suitable for Class B fires.		
Note: Water spray may be ineffective for fighting LARGE FIRES, but may be used to cool fire-exposed containers.		
Unusual Fire and Explosion Hazards: Containers exposed to fire may rupture explosively. Maintain a safe distance.		

Accidental Release Measures – Section VI	
Steps to be Taken if Released or Spilled:	Ventilate area. Wear protective equipment. Remove all sources of ignition. Prevent material from entering drains, sewers or waterways. Recover liquid where possible. Dilute with water. Contain spillage with absorbent material and dispose according to local / national regulations. Comply with all applicable

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governmental regulations on spill reporting.

Handling and Storage – Section VII

This material releases flammable vapors at or below ambient temperatures. Keep away from ignition sources. Do not store indoors. Follow dispensing instructions. Always dispense directly into water per mixing instructions. Wash hands after use. Keep container sealed with lid or pump applicator when not in use. Empty containers usually still hold residue and material vapor. Containers must be disposed of in accordance with proper handling procedures for hazardous chemicals. Rinse and recycle if possible.

Exposure Controls and Personal Protection – Section VIII

Respiratory Protection: In the absence of adequate ventilation or if vapors exceed 200 ppm, use a NIOSH approved respirator.
Ventilation Requirements: This product designed for outdoor use. Mechanical ventilation is required if necessary to maintain gas and vapor levels below PEL and flammability limits.
Protective Gloves: Wear appropriate impervious gloves to prevent skin exposure.
Eye Protection: Safety glasses or goggles are required where there is a possibility of slashing or spraying.

Physical and Chemical Properties – Section IX

Appearance: Liquid, light clear blue, characteristic alcohol smell.
Boiling Point: 64.5°C
PH: (1.0% solution) N/A
Vapor Pressure (mm/Hg): 96 @ 20 °C
Specific Gravity: 0.790 (water = 1, @20 °C)

Vapor Density: 1.11 (Air=1)
Solubility in Water: Complete
Evaporation Rate: 5.3

Stability and Reactivity – Section X

Stable
Avoid heat, flames, and other ignitions sources.
Keep away from strong oxidizers.
Non-hazardous decomposition
Hazardous polymerization will not occur

Toxicological Information – Section XI

Toxicity to Animals LD50: Oral rat: 5628 mg/kg; Skin rabbit: 15800 mg/kg
LC50: Inhalation rate: 64000 ppm/4H
Chronic Effects on Humans Poison. May be fatal or cause blindness if swallowed. Cannot be made unpoisonous.
Other Toxic Effects on Humans Methyl alcohol is listed as a toxic chemical on the SARA Title III, Sec 313 list. For Sec. 311/312 reporting, methyl alcohol is listed as an immediate (acute) health hazard and a fire hazard. None of the chemicals in this product are found on the extremely hazardous listed.

Ecological Information – Section XII

When released into the soil, this product is expected to leech into ground water and readily biodegrade and evaporate quickly. When released into the air, this material is expected to exist in an aerosol phase with a short half-life and readily degrade with photochemically produced hydroxyl radicals. Report all spills and releases, as applicable, under Federal and State Regulations.

Disposal Considerations – Section XIII

Consult all LOCAL, STATE, and FEDERAL regulations with regards to proper and suitable disposal method.

Transportation and Storage Information – Section XIV

Proper Shipping Name:	Methanol	Hazard Class:	3, 6.1
UN Number	UN1230	Packing Group:	II

Regulatory Information – Section XV

CERCLA Status: Listed.
TSCA Status: All components in this product are listed on the TSCA inventory.
SARA Section 311/312 Hazards: All components in this product are listed, 40 CFR 31.
HMIS: Noted at the top of this form.
Clean Water Act: None of the chemicals in this product are listed as Hazardous substances or Toxic Pollutants.

Other Information – Section XVI

References: The information contained herein is based on data available and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data.