

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY

WINTER GUARD (400040)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufactured For:

Beaver Research Company

Address (Number, Street, City, State, and ZIP Code)

3700 E. Kilgore Road, Portage, MI 49002

HMIS RATINGS:

0=Minimal 3=Serious

1=Slight 4=Severe

2=Moderate

Health: 2

Flammability: 1

Reactivity: 0

Special Protection: C

Emergency Telephone Number

1-800-522-3924 (Chem-Tel)

Telephone Number For Information

269-382-0133

Date Prepared

03/07/01

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical
Identity; Common Name(s))

CAS No.

OSHA PEL

ACGIH TLV

Other Limits
Recommended

%
(optional)

Water

7732-18-5

N/A

N/A

N/A

<60%

1,2-Ethanediol

107-21-1

50 ppm

50 ppm

N/A

<40%

Intersol 84, 200 pf

Mixture

400 ppm

400 ppm

N/A

<10%

*This product contains the following toxic chemical that is claimed as a trade secret but disclosed as an upper bound concentration to comply with the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR Part 372:
GLYCOL ---- <40%

Section III - Physical/Chemical Characteristics

Boiling Point

174 - >387°F

Specific Gravity (H₂O = 1)

1.0231

Vapor Pressure (mm Hg)

13.8@ R.T.

Melting Point

N/A

Vapor Density (AIR = 1)

1.9

Evaporation Rate
(Butyl Acetate = 1)

100%

Solubility in Water

Complete

Appearance and Odor

Clear, colorless liquid; very mild odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

None

Flammable Limits

(volume % in air)

LEL

1.5

UEL

7.2

Extinguishing Media

Apply alcohol-type or all-purpose type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

Special Fire Fighting Procedures

Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity. Use self-contained breathing apparatus (SCBA) and protective clothing.

Unusual Fire and Explosion Hazards

None.

Section V - Reactivity Data

Stability

Unstable

Stable

Conditions to Avoid

None.

X

Incompatibility (Materials to Avoid)

Strong oxidizers, acids.

Hazardous Decomposition or Byproducts

Burning can produce carbon monoxide and/or carbon dioxide.

Hazardous

May Occur

Conditions to Avoid

None.

Polymerization

Will Not Occur

X

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Eyes?	Ingestion?
	Yes	Yes	Yes	Yes

Health Hazards (Acute and Chronic)

Ingestion: May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, lumbar pain, oliguria, uremia and central nervous system effects, including irregular eye movements, convulsions and coma. Cardiac failure and pulmonary edema may develop. Severe kidney damage follows the swallowing of large volumes of ethylene glycol. May be fatal. **Skin:** No evidence of harmful effects from available information. **Inhalation:** May cause irritation to the nose and throat with headache, particularly from mist. High vapor concentrations caused, for example, by heating the material in an enclosed and poorly ventilated workplace may produce nausea, vomiting, headache, dizziness and irregular eye movements. **Eyes:** Injury to the cornea is not expected. Liquid, vapor or mist causes irritation (experienced as stinging), excess blinking and tear production, with redness of the conjunctiva.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	N/A	N/A	N/A

Signs and Symptoms of Exposure

See above "Health Hazards".

Medical Conditions Generally Aggravated by Exposure

May aggravate an existing kidney disease.

Emergency and First Aid Procedure

Ingestion: If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention without delay. If medical advice is delayed and if the person has swallowed a moderate volume of material (a few ounces), then give 3 to 4 ounces of hard liquor, such as whiskey. **Skin:** Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention. **Inhalation:** Remove to fresh air. Obtain medical attention if symptoms persist. **Eyes:** Flush thoroughly with water for several minutes.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Small spills can be flushed with large amounts of water; large spills should be collected for disposal. Wear protective equipment.

Waste Disposal Method

Neutralize and dispose of in accordance with local, state and federal regulations.

Precautions to be Taken in Handling and Storage

Keep containers closed when not in use. Wash hands after use or when in contact with product. **Danger: Harmful or fatal if swallowed.**

Other Precautions

Keep out of reach of children. Wash contaminated clothing before reuse.

Section VIII - Control Measures

Respiratory Protection (Specify Type)

NIOSH approved breathing air equipment or NIOSH approved face mask with organic vapor cartridge and dust or mist pre-filter.

Ventilation	Local Exhaust	N/A	Special	N/A
	Mechanical(General)	Normally adequate.	Other	N/A

Protective Gloves

Rubber or neoprene.

Eye Protection

Safety glasses or face shield.

Other Protective Clothing or Equipment

Rubber apron and boots, eye bath, safety shower.

Work/Hygienic Practices

Wear protective equipment. Use sound industrial hygiene practices when handling this material.

N/A=Not Applicable N/E=Not Established

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