



# ICE BARRIER®

1101 3rd Street  
Southeast  
Canton, OH 44707 USA  
330.456.3121  
800.321.0699  
www.midwestind.com

## SAFETY DATA SHEET

### SECTION I -- IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

**TRADE NAME:** ICE BARRIER®  
**MANUFACTURER:** Midwest Industrial Supply, Inc  
1101 3rd Street SE  
Canton, OH 44707  
**EMERGENCY PHONE NUMBER:** 330-456-3121  
**RECOMMENDED USE:** Ice and Freezing Inhibitor  
**CHEMICAL NAME:** Aliphatic alcohol  
**SYNONYMS:** Anti-icer

### SECTION II -- HAZARDS IDENTIFICATION

**CLASSIFICATION:** Non-Hazardous  
**SIGNAL WORD:** None  
**HAZARD STATEMENT(S):** None

Pictograms

**PRECAUTIONARY STATEMENT(S):** Observe good industrial hygiene practices.  
Store in closed containers.  
**OTHER HAZARDS:** None

### SECTION III -- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	WT %
Glycerin	56-81-5	Non Hazardous
Water	7732-18-5	< 70%
Proprietary Ingredients	-	Non-Hazardous

### SECTION IV -- FIRST AID MEASURES

**EYES:** Flush eyes with water at least 15 minutes. Get medical attention. Remove contact lenses.  
**INHALATION:** Move subject to fresh air.  
**INGESTION:** Give water to drink. Seek medical attention. **NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.**  
**SKIN:** Flush with large amount of water or wash with soap and water.

### SECTION V -- FIREFIGHTING MEASURES



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<b>EXTINGUISHING MEDIUM:</b>	Water spray or alcohol resistant foam. Dry powder or carbon dioxide.
<b>SPECIAL FIREFIGHTING PROCEDURES:</b>	Avoid breathing vapors or fumes. Wear self contained breathing apparatus and turn out gear. Frothing may occur when using water spray or foam to extinguish fire. Caution should be used. Individuals should perform only those fire fighting procedures for which they have been trained.
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	Firefighters should wear self-contained breathing apparatus in the positive pressure mode with full face piece when there is a possibility of exposure to smoke or hazardous decomposition products.
<b>SPECIAL HAZARDS:</b>	None

### SECTION VI -- ACCIDENTAL RELEASE MEASURES

<b>SPILL AND LEAK PROCEDURES:</b>	Dike and control spill. Transfer liquid to containers for recovery or disposal. Keep spills out of sewers and open bodies of water. Comply with local, state, and federal reporting regulations.
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### SECTION VII -- HANDLING AND STORAGE

<b>STORAGE:</b>	Keep in cool, dry, ventilated storage area and in closed containers. Keep away from acids and strong oxidizing agents.
<b>HANDLING:</b>	Practice reasonable caution to avoid skin and eye contact. Dispose of empty containers properly as they contain glycerin residue.

### SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

<b>RESPIRATORY PROTECTION:</b>	Where exposure levels are expected to exceed acceptable criteria, use NIOSH/OSHA approved respiratory equipment.
<b>VENTILATION:</b>	Good general ventilation should be sufficient. Local exhaust ventilation may be necessary for some operations.
<b>EYE PROTECTION:</b>	Chemical splash goggles recommended.
<b>PROTECTIVE CLOTHING:</b>	Impervious gloves recommended.

### SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Liquid
<b>Odor:</b>	Slight must odor
<b>Vapor Density:</b>	N/D
<b>Solubility in Water:</b>	Complete

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<b>Relative Density:</b>	1.12-1.16
<b>Melting/Freezing Point:</b>	N/D
<b>VOC Content:</b>	0%
<b>Viscosity:</b>	N/D
<b>Flashpoint:</b>	N/D
<b>Flammable Limits LEL:</b>	N/D
<b>Flammable Limits UEL:</b>	N/D
<b>Odor Threshold:</b>	N/D
<b>Initial Boiling Point/Range:</b>	N/D
<b>Vapor Pressure:</b>	N/D
<b>Evaporation Rate:</b>	N/D
<b>pH:</b>	5-8
<b>Octanol/Water Coefficient:</b>	N/D
<b>Decomposition Temperature:</b>	N/D
<b>Flammability (solid/gas):</b>	N/A
<b>Auto Ignition Temperature:</b>	N/A

**SECTION X -- STABILITY AND REACTIVITY**

<b>REACTIVITY:</b>	N/D
<b>STABLE:</b>	Stable
<b>CHEMICAL INCOMPATIBILITY:</b>	Oxidizing materials and acids
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Burning produces corrosive fumes of acrolein and carbon dioxide and carbon monoxide.
<b>HAZARDOUS POLYMERIZATION:</b>	Does not occur
<b>CONDITIONS TO AVOID:</b>	Heat, sparks, open flame

**SECTION XI -- TOXICOLOGICAL INFORMATION****EFFECTS OF OVEREXPOSURE**

<b>INHALATION:</b>	At room temperature, exposures are likely due to generation of mists; higher temperatures may generate vapor levels sufficient to cause irritation.
<b>SKIN:</b>	Prolonged or repeated exposure is not likely to cause irritation; it may cause skin dryness.
<b>EYES:</b>	Essentially non-irritating to the eyes.
<b>INGESTION:</b>	May cause digestive irritation or diarrhea.
<b>CARCINOGENICITY:</b>	N/D
<b>GERM CELL MUTAGENICITY:</b>	N/D
<b>REPRODUCTIVE TOXIN:</b>	N/D

Toxicity studies have not been performed on ICE BARRIER®, however, data on Glycerin is as follows:

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Acute toxicity: Ingestion; LD50, Rat 17,000 – 27,200 mg/kg  
Skin Absorption; LD50, Rabbit > 10,000 mg/kg  
Inhalation; LC50, Rat 6 hour aerosol >4 mg/L

Repeat dose toxicity: Excessive exposure to glycerin may cause increased fat levels in blood in gastrointestinal tract in animals.

Carcinogenicity: Did not cause cancer in laboratory animals.

Developmental Toxicity: Did not cause birth defects or any other fetal developmental effects in lab animals.

Reproductive Toxicity: Reproductive effects in female animals are believed to be due to altered nutritional states resulting from extremely high doses of glycerin in the diet. Similar effects have been seen in animals fed synthetic diets.

Genetic Toxicity: In vitro genetic studies were negative.

### SECTION XII -- ECOLOGICAL INFORMATION

Ecological studies have not been performed on ICE BARRIER®, however, data on Glycerin is as follows:  
When released into the environment (soil / water) this material is not expected to have a negative impact.

Ecological studies have not been performed on ICE BARRIER®; however, data on individual components is as follows:

**Movement and Partitioning:**

Bioconcentration potential in low (BCF less than 100 or log Pow less than 3).

Potential for mobility in soil is very high (Koc between 0 and 50)

Given its very low Henry's constant; volatilization from natural bodies of water or moist soil is not expected to be an important fate process

**Persistence and degradation:**

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability  
OECD 301C test; 14 days, 63% biodegradation

**Ecotoxicity:**

This material is relatively non-toxic to aquatic life, LC50/EC50 >100 mg/kg in most sensitive species.

LC50; fathead minnow (*Pimephales promelas*), static, 96 hr, 44,000 mg/L

LC50; water flea (*Daphnia magna*), 24 hr, >10,000 mg/L

EC50; micro-organisms, OECD 209 test, activated sludge, respiratory inhibition, 3Hr >1000mg/L

### SECTION XIII -- DISPOSAL CONSIDERATIONS



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**WASTE DISPOSAL METHOD:** Consult your local authorities for regulations. Preferred waste management: recycle or reuse, incinerate with energy recovery, disposal in a licensed facility. Disposal facility should be compliant with state, local and federal government regulations.

### SECTION XIV -- TRANSPORTATION INFORMATION

**DOT HAZARDOUS MATERIAL DESCRIPTION:** Not regulated as dangerous goods  
**PROPER SHIPPING NAME:** ICE BARRIER®  
**UN NUMBER:** Not regulated as dangerous goods  
**HAZARD CLASS/PACKAGING GROUP:** None  
**LABELS REQUIRED:** None

### SECTION XV -- REGULATORY INFORMATION

<b>NFPA RATING:</b>	Health:	1	<b>HMIS RATING:</b>	Health:	1
	Flammability:	1		Flammability:	1
	Instability:	0		Physical Hazard:	0
				PPE:	B

**EPA SARA Title III hazard class:** None  
**OSHA HCS hazard class:** Non-Hazardous  
**EPA SARA Title III Section 313 (40CFR372):** N/D  
**TSCA:** Listed

### SECTION XVI -- OTHER INFORMATION

#### ABBREVIATIONS AND SYMBOLS:

N.D. Not Determined                      N.A. Not Applicable                      N.T. Not Tested  
< Less Than                                      > More Than