

ICE FYGHTER D™

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 FYGHTER D™

MANUFACTURER: Midwest Industrial Supply, Inc

1101 3rd Street SE Canton, OH 44707

EMERGENCY PHONE NUMBER: 330-456-3121

RECOMMENDED USE: Conveyor Belt Anti-icing Agent

CHEMICAL NAME: Diethylene glycol based winter agent

SYNONYMS: De-icer

SECTION II -- HAZARDS IDENTIFICATION

CLASSIFICATION: Acute Oral Toxicity

SIGNAL WORD: Warning

Pictograms





HAZARD STATEMENT(S): Harmful if swallowed, 4

May cause damage to organs (kidneys) through prolonged or repeated exposure, 2

PRECAUTIONARY STATEMENT(S):

Prevention: Do not breathe mist/vapor/spray.

Wash hands and exposed skin thoroughly after handling. Do not eat, drink, or smoke when using this product.

Wear eye and face protection.

Response: If swallowed, call a doctor/poison control if you feel unwell.

Rinse mouth.

If exposed or concerned, call a doctor or poison control.

Storage: Store locked up.

Disposal: Dispose of contents/container per local, state, and federal laws.

OTHER HAZARDS: None

SECTION III -- COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	WT %	
Diethylene glycol	111-46-6	< 60%	



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Urea57-13-6< 5%Water7732-18-5> 35%Alpha olefin sulfonate68439-57-6< 1%Proprietary ingredientsNon-hazardous< 1%

SECTION IV -- FIRST AID MEASURES

INHALATION: Move to fresh air if effects occur, and get medical attention.

SKIN: Flush with large amount of water, or wash with soap and water. Seek medical attention if irritation

persists.

EYES: Flush eyes with flowing water for at least 15 minutes. Get medical attention.

INGESTION: Induce vomiting if large amounts are ingested. Consult medical personnel. (Never give fluids or induce

vomiting if patient is unconscious or having convulsions.)

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on the judgement of the physician in

response to reactions of the patient. Repeated, excessive exposure may aggravate pre-existing liver

and kidney disease.

RECOMMENDATION TO FIREFIGHTERS ON SPECIAL PROTECTIVE EQUIPMENT OR PREQUATIONS:

Wear self-contained breathing apparatus and turn out gear.

SECTION V -- FIREFIGHTING MEASURES

EXTINGUISHING MEDIUM: Water fog, dry foam, CO₂, dry chemical. DO NOT use direct water

stream.

SPECIAL FIREFIGHTING PROCEDURES: Avoid breathing vapors or fumes. Wear self-contained breathing

apparatus and turn out gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

SPECIAL HAZARDS:

None

SECTION VI -- ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Chemical splash goggles and impervious gloves

SPILL AND LEAK PROCEDURES: Dike and control spill. Transfer liquid to containers for recovery or disposal. Keep spills

out of municipal sewers and open bodies of water.

SECTION VII -- HANDLING AND STORAGE

STORAGE: Keep in a cool, dry, ventilated storage area and in closed containers.

HANDLING: Practice reasonable caution to avoid skin and eye contact. Avoid breathing vapors from hot material.

Trace quantities of ethylene oxide (EO) may be present in this product. While the trace quantities could accumulate in headspace areas of storage transport vessels, they are not expected to create a



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condition which will result in EO concentrations greater than 0.5 ppm (8 hour TWA) in the breathing zone of the workplace for appropriate applications. OSHA has established a permissible exposre limit of 1.0 ppm (8 hour TWA) for EO. (Code of Federal Regulations Part 1910.1047 of Title 29.)

SECTION VIII -- EXPOSURE CONTROL/PERSONAL PROTECTION

VENTILATION: Good general ventilation should be sufficient. Local exhaust ventilation may be

necessary for some operations.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

EYE PROTECTION: Chemical splash goggles recommended **PROTECTIVE CLOTHING:** Impervious gloves recommended

SECTION IX -- PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Odor: Slight odor Vapor Density: N/D **Solubility in Water:** Complete **Relative Density:** 1.05-1.07 **Melting/Freezing Point:** N/D **VOC Content:** 60% N/D **Viscosity:** Flashpoint: N/A Flammable Limits LEL: N/D Flammable Limits UEL: N/D **Odor Threshold:** N/D

Initial Boiling Point/Range: >100°C (212°F)

Vapor Pressure: N/D
Evaporation Rate: N/D
pH: 6-8
Octanol/Water Coefficient: N/D
Decomposition Temperature: N/D
Flammability (solid/gas): N/A
Auto Ignition Temperature: N/D

SECTION X -- STABILITY AND REACTIVITY

REACTIVITY: N/D
CHEMICAL STABILITY: Stable



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CHEMICAL INCOMPATIBILITY: Oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS:Burning produces normal products of combustion; carbon dioxide,

carbon monoxide, and water.

HAZARDOUS POLYMERIZATION: Does not occur.

CONDITIONS TO AVOID: Heat, sparks, and open flame

SECTION XI -- TOXICOLOGICAL INFORMATION

Toxicological testing has not been done on ICE FYGHTER D^{TM} , however, the toxological information below is the result of testing on Diethylene Glycol.

Acute toxicity

Acute oral toxicity: Acute toxicity estimate: 1,120 mg/kg

Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity: LC50 (rat): > 4.6 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity: LD50 (rabbit): 11,890 mg/kg

Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Species: Human

Method: Patch Test 24 Hrs. Result: No skin irritation

Serious eye damage/eye irritation

Species: rabbit

Result: No eye irritation

Respiratory or skin sensitisation

Test Type: Maximisation Test (GPMT)

Species: guinea pig

Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro: Test Type: Ames test

Test species: Salmonella typhimurium



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Metabolic activation: with and without metabolic acti-vation

Result: negative

Genotoxicity in vivo: Test Type: In vivo micronucleus test

Test species: mouse Cell type: Bone marrow

Application Route: Intraperitoneal

Exposure time: Single

Result: negative

Germ cell mutagenicity- Assessment: Tests on bacterial or mammalian cell cultures did not show mutagenic

effects.

Carcinogenicity

Species: rat

Application Route: Oral Exposure time: 108 wks

NOAEL: 1,210 mg/kg body weight

Result: did not display carcinogenic properties

Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Effects on fertility: Test Type: Two-generation study

Species: rat

Application Route: Oral

Fertility: NOAEL: 2,200 mg/kg body weight

Result: No reproductive effects.

Effects on foetal devel-opment: Species: rabbit

Application Route: Oral

Duration of Single Treatment: 30 d

Teratogenicity: NOAEL: 1,000 mg/kg body weight

Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on

development, based on animal expe-riments.

Repeated dose toxicity

Species: rat

NOAEL: 10,000 mg/kg Application Route: Oral



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Exposure time: 4 wks Number of exposures: daily

SECTION XII -- ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish: LC50 (Pimephales promelas (fathead minnow)): 75,200 mg/l

Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other aquatic inverte-brates:

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h Test Type: static test

Toxicity to algae:

EC50 (Pseudokirchneriella subcapitata (Selenastrum capricornutum)): 6,500 - 13,000 mg/l

End point: Growth rate Exposure time: 96 h Test Type: static test

Remarks: Information given is based on data obtained from similar substances.

Persistence and degradability

Biodegradability: aerobic

Inoculum: Activated sludge, domestic, adaption not specified

Concentration: 45 mg/l Biodegradation: 90 - 100 %

Exposure time: 28 d

GLP: yes

Remarks: Readily biodegradable

Bioaccumulative potential

Partition coefficient: n-octanol/water: log Pow: -1.98

SECTION XIII -- DISPOSAL CONSIDERATIONS

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.



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SECTION XIV -- TRANSPORTATION INFORMATION

DOT HAZARDOUS MATERIAL DESCRIPTION: Not regulated **PROPER SHIPPING NAME:** ICE FYGHTER D™

UN NUMBER: N/D
HAZARD CLASS/PACKAGING GROUP: None
LABELS REQUIRED: None

SECTION XV -- REGULATORY INFORMATION

NFPA RATING:	Health:	1	HMIS RATING:	Health:	1
	Flammability:	1		Flammability:	1
	Instability:	0		Physical Hazard:	0
				PPE:	В

EPA SARA Title III hazard class:

OSHA HCS hazard class: Acute Oral Toxicity

EPA SARA Title III Section 313 (40CFR372): None

SECTION XVI -- OTHER INFORMATION

LATEST REVISION:

ABBREVIATIONS AND SYMBOLS:

N.D. Not Determined N.A. Not Applicable N.T. Not Tested

< Less Than > More Than