



MATERIAL SAFETY DATA SHEET

Form WI04-11A Rev. 1

Part Number(s):
17-123-45

Product Name: Ortho Ice 10 Oz (Chill Spray)

Release Date: April 10, 2007

1. Product and Company Identification

Trade Name & Synonyms Essix freeze spray	MSDS Code Number Refer to part number
Chemical Name NA	Manufacture / Distributor GAC International Inc.
C.A.S. Number 811-97-2	Address 355 Knickerbocker Ave. Bohemia, NY USA 11716
Grades or Minor Variant Identities NA	Information Telephone Number 1-631-419-1700
Product Use (for Canada) NA	Emergency Telephone Number 1-631-419-1700

2. Composition of Ingredients

Hazardous Components	C.A.S. Number	Exposure Limits	%
1,1, 1,2- Tetrafluoroethane	811-97-2	NA	100
OSHA Hazardous components (29 CFR 1910.1200)	NA	8 hours TWA (PPM)	NA
OSHA: PELACGIH: TLV Supplier: NIF: 1000	NA	NA	NA

3. Hazard Identification

Emergency Overview					
NA					
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Liquid can cause slight, temporary irritation with slight temporary corneal injury. Vapors can irritate eyes.	NA	NA	NA	NA
Skin	Prolonged or repeated contact with liquid can cause freezing of skin tissues, defatting, and dermatitis.	NA	NA	NA	NA
Inhalation	Major potential route of exposure. Minimal effects observed below 1,000 ppm. Dizziness, drowsiness, and throat irritation possible at levels above 1,000 ppm. Unconsciousness and death at levels above 10,000 ppm. Blood pressure, depression, cardiac sensitization, and ventricular arrhythmia can result from exposure to near-anesthetic levels.	NA	NA	NA	NA
Ingestion	Single dose toxicity is low to moderate. If vomiting occurs the liquid can be aspirate into lungs, which can cause chemical pneumonia and systemic effects. Human psychotropic, gastrointestinal and central nervous system effects possible.	NA	NA	NA	NA
Other	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure NA					
Carcinogenicity (IARC, NTP) NA					
Potential Environmental Effects NA					



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4. First Aid Measures

Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Flush eyes with large amounts of water for 15 minutes or until irritation subside.	If irritation persists, get medical attention.	NA
Skin	Remove contaminated clothing (including shoes) and wash before reuse. Flush with large amounts of water. Use soap if available.	If irritation persists, seek medical attention.	NA
Inhalation	Move to fresh air in case of accidental inhalation of vapors. If victim has stopped breathing, give artificial respiration.	Call for prompt medical attention.	NA
Ingestion	Do not induce vomiting unless directed by physician. If conscious and alert, give two glasses of water.	Seek medical attention immediately.	NA
Other	NA	NA	NA
Note to Physicians (Treatment, Testing, and Monitoring)			
NA			

5. Fire and Explosion Data

Flashpoint & Method: °C / °F None TCC method	Flammable (Explosive) Limits in Air LEL: N/A UEL: N/A	Autoignition Temperature NA	Other NA
Flame Propagation or Burning Hazardous combustion products: Smoke, fumes and oxides of carbon.	Properties Contributing to Fire Intensity NA	Flammability Classification Health-1 , Flammability-1 , Reactivity-1	
Extinguishing Media Fire fighting equipment: Water, foam, dry chemical, and carbon dioxide.		Extinguishing Media to Avoid NA	
Protection and Procedures for Firefighters Fire fighters should wear self-contained, positive – pressure breathing apparatus and avoid skin contact.			
Unusual Fire and Explosion Hazards General hazard: Aerosol cans may erupt with force at temperatures about 120 degrees F.			

6. Accidental Release Measures

Containment Techniques NA
Spill/Leak Clean-Up Procedures and Equipment Land spill: Evacuate area. Ventilate area well and avoid breathing vapors. Vapor concentration will be highest along floor and in low-lying areas. Pick up liquid on suitable absorbent and store in sealed containers.
Evacuation Procedures NA
Special Instructions NA
Reporting Requirements NA



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7. Handling and Storage

Handling Practices and Warnings

Keep container closed when not in use.

Storage Practices and Warnings

(°C / °F). Storage temperature: Ambient. Storage pressure: Atmospheric. Store in cool, well-ventilated place out of direct sunlight and away from incompatible materials. (See stability and reactivity data) Follow all MSDS and label warnings even after container is emptied.

8. Exposure Control/Personal Protection

Ventilation

Local exhaust ventilation acceptable.

Other Engineering Controls

NA

Routes of Entry:

Personal Protective Equipment (PPE) for Normal Use:

PPE for Emergencies:

Eye/Face

Safety glasses

NA

Skin

Gloves recommended- solvex, butyl, natural latex, neoprene, Buna, cotton jersey.

NA

Inhalation

Respirator: If concentrations are over the exposure limit and are known, air-purifying respirator with organic vapor cartridges may be acceptable. Refer to cartridges for acceptable levels. If concentrations are over exposure limit and are unknown, use a supplier air respirator.

NA

General Hygiene Considerations and Work Practices

NA

Protective Measures During Repair and Maintenance of Contaminated Equipment

NA

Other Protective Measures and Equipment

NA

9. Physical and Chemical Characteristics

Appearance

Clear water-white liquid

Odor

Low odor

Normal Physical State:

Liquid Gas

Solid _____ (Other)

Boiling Point -16 °C / -27 °F

Melting Point °C / °F NA

Freezing Point °C / °F NIF

Specific Gravity or Density (H₂O=1)

1.202

Solubility in Water

0

pH

7-8

Vapor Pressure (mm Hg @ 20°C)

NA

Vapor Density (AIR= 1)

3.0

Evaporation Rate (Butyl Acetate = 1)

>1

Other

% volatile: 100. % solids: 0. Viscosity: N/A. Molecular weight: N/A Non-exempt VOC (g/l): 0

10. Stability and Reactivity Data

Incompatibility (Materials to Avoid)

Contact with open flame, heat. Reactive alkali metals, strong acids and bases.

Hazardous Products Produced During Decomposition

Hydrogen fluoride, carbon dioxide, and carbon monoxide.

Hazardous Polymerization?

May Occur May Not Occur NA

Conditions to Avoid

°C / °F NA

Stability?

Stable Unstable

Conditions to Avoid

°C / °F NA



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11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic or Reproductive Effects, or Structure Activity Data

Result of component toxicity test performed: Information not available.

Human experience: Information not available.

This product does not contain any compounds listed by NTC or IARC or regulated by OSHA as a carcinogen.

12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

Further information: Information not available.

13. Disposal Considerations

Regulations

RCRA 40 CFR 261 Classification: Federal, state and local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Properties (Physical/Chemical) Affecting Disposal

NA

14. Transport Information

Regulated for shipping?

Yes No NA

Proper Shipping Name

NA

Packing Group

N/A

Do changes in quantity, packaging, or shipment method change product classification?

Yes No NA

Hazard Class

N/A

Identification Number

UN Number: N/A

Other

U.S DOT Information: Proper shipping name: Consumer commodity ORM- D

Hazard class: N/A

Packaging group: N/A

UN number: N/A

Limitations: Must place consumer commodity ORM-D on box.

IATA:

Proper shipping name: Consumer commodity ID8000.

Hazard class: N/A

UN number: ID8000

Limitations: A Copy of the DOT-E 10232 must be attached to the shipment. CARGO AIRCRAFT ONLY.

Domestic shipments only. When shipping international, contact tech spray shipping department.

IMO:

Proper shipping name: Aerosols class: 2.2

UN number: UN1950

Packaging group: N/A

EMS: 2-13

MFAG: 350

Marine pollutant: N/A

Canadian TDG: N/A

IMDG Page: 2102

Limitations: Must have Non-flammable label



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15. Regulatory Information

Federal Regulations

United states federal regulations: MSDS complies with OSHA hazard communication rule, 29CFR 1910.1200.

CERCLA / SUPERFUND, 40 CFR 119,302: None of the chemicals are superfund hazards.

SARA Superfund and reauthorization act of 1986 title II sections 302, 311, 312 and 313: Section 302- Extremely hazardous substances (40CFR): None of the chemicals are section 302 hazards.

Section 311/312: MSDS Requirements (40 CFR 370): By our evaluation this product is hazardous. It should be reported under the following EPA HAZARD: Immediate (acute health hazard).

Section 313- List of toxic chemicals (40 CFR 372): This product contains the following chemicals (at levels of 1% or greater) which are found on the 313 list of toxic chemicals: None of the chemicals are 313 toxic chemicals.

Toxic substance control act (TSCA): All substances are TSCA listed.

Resource conservation and recovery act (RCRA 40 CFR 261): Subpart C & D: Refer to section 11 for RCRA classification.

Federal water pollution control act, clean water act, 40 CFR 401.15 (Formerly Section 307), 40 CFR 116 (Formerly section 311): This product contains the following chemicals which are listed.

State regulations: Clean air act: No information.

California proposition 65: This product contains the following ingredients which appear on the California proposition 65 list: None of the chemicals are on the proposition 65 list.

International Regulations

Canada WHMIS: NIF

Europe EINECS numbers: Tetrafluoroethane; 811-97-2

Other

Label information: European risk and safety phrases: s2, s23, s24/25, s51.

European symbols needed: None.

Canadian WHMIS Symbols: NIF

NFPA Hazard rating: 1- Fire; 1-Health; 1- Reactivity.

Revision dates, sections, revised by: 27-Jul-94, converted to ANSI standard, An. Riffel; 01-Aug 96, Updated shipping information, L. Humphrey; 07-Oct-96, updated section 11, B. Riffel; 14-Jan 97, Updated shipping information, R. Prichard.

16. Other Information

Supplier Number: 40/17

Supplier Release: NA

N/A = not applicable. NA = not available, N/E = not established. N/D = not determined.