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Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP ICE MELT
Product use Aerosol Ice Melt Compound
Product code 0176
Date of issue 06/22/05 **Supersedes** 08/22/03

Emergency Telephone Numbers **For MSDS Information:**
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC: (877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Printing date: 06/23/08

Prepared By
Compliance Services
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Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	70 - 80	ACGIH TLV / OSHA PEL (United States). TWA: 1000 ppm 8 hour(s).
ETHYLENE GLYCOL; 1,2-ethandiol; glycol; ethylene dihydrate	107-21-1	20 - 30	ACGIH TLV (United States). TWA: 50 ppm 8 hour(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Eye contact. Skin contact. Inhalation. Ingestion.

- Skin** Hazardous by the following route of exposure: of skin contact (irritant). Non-sensitizer to skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.
- Eyes** Hazardous by the following route of exposure: of eye contact (irritant). Liquid in eye may cause irritation with possible damage if not rinsed immediately. Inflammation of the eye is characterized by redness, watering and itching.
- Inhalation** Hazardous by the following route of exposure: of inhalation (lung irritant). Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may cause narcotic effect. Can cause dizziness, lightheadedness, headache, nausea, and blurred vision.
- Ingestion** Extremely hazardous by the following route of exposure: of ingestion. Toxic if swallowed. May be fatal if swallowed. If ingested, call a physician or Poison Control Center immediately.

HMIS

Health	2
Fire Hazard	3
Reactivity	0
Personal Protection	B

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse health effects are lessened by following all prescribed safety precautions, including use of proper personal protective equipment.

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects The substance may be toxic to kidneys, the nervous system, the reproductive system, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Prolonged or repeated contact may dry skin and cause irritation. Inhalation and ingestion may cause drowsiness, dizziness, incoordination and other effects of intoxication. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

See Toxicological Information (section 11)

Section 4. First Aid Measures

- Eye Contact** Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin Contact** Wash affected area with soap or mild detergent and water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Get medical attention if irritation develops.
- Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion** If ingested, call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to help prevent aspiration. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not determined.	Flammable Limits	Not determined.
Flammability	FLAMMABLE. (CSMA)		
Fire hazard	Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.		
Fire-fighting procedures	Use water spray or fog. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion. Fire-fighters should wear appropriate protective equipment.		

**Section 6. Accidental Release Measures**

Spill Clean up	Large spills are unlikely due to packaging.
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Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Do not ingest. Use only with adequate ventilation. Avoid breathing vapors of this product.
Storage	Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Do not store above the following temperature: 49°C (120.2°F). Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses.	
Body	Neoprene gloves. Nitrile gloves. Rubber gloves.	
Respiratory	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Aerosol.)	Color	Clear. Colorless.
pH	Not applicable.	Odor	Strong.
Boiling Point	Not determined.	Vapor Pressure	2.7 kPa (20 mm Hg) (at 20°C)
Specific Gravity	0.84 (Water = 1)	Vapor Density	Not determined.
Solubility	Easily soluble in the following materials: cold water, hot water.	Evaporation Rate	>1
		VOC (Consumer)	96.7%

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Carbon dioxide., Carbon monoxide. and other organic materials..

Section 11. Toxicological Information

Toxicity to Animals	Ethanol: ^[25,45,50,70 ORAL (LD50):□Acute: 7060 mg/kg [Rat]. Ethylene Glycol: ^[25,45,50,70 ORAL (LD50):□Acute: 4000 mg/kg [Rat]. DERMAL (LD50):□Acute: >2000 mg/kg [Rat].
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Section 12. Ecological Information

Ecotoxicity	Not available.
Biodegradable/OECD	Not available.

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	Waste Stream	Code: D001 Classification: - (Hazardous waste.) Origin: - (RCRA waste.)
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Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name	Consumer commodity	UN number	Not regulated.
DOT Classification	ORM-D		

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

TDG Classification	ORM-D
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Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Ethylene Glycol

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: Ethylene Glycol

All Components of this product are listed or exempt from listing on TSCA inventory.

State Regulations

California Prop. 65: No products were found.

WHMIS (Canada)

Class A: Compressed gas.

Class B-5: Flammable aerosol.

Class D-2A: Material causing other toxic effects (Very toxic).

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.