



Ice Blaster

MSDS Number: IB aerosol

Revision Date: 01/09/12

Page 1 of 7

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: Ice Blaster
Revision Date: 01/09/12
MSDS Number: IB aerosol
Product Code: 16-IB

Manufacturer: The Blaster Chemical Companies, Inc.
8500 Sweet Valley Drive
Valley View, Ohio 44125

(216) 901-5800
(216) 901-5801 fax
www.blasterproducts.com

2 COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS #	Percent	Exposure Limits
Methanol	67-56-1	50-60%	OSHA (PEL)- 200ppm ACGIH (TLV)- 200 ppm
Ethylene Glycol	107-21-1	5-10%	OSHA (PEL)- 50ppm ACGIH (TLV)- 50 ppm
Carbon Dioxide	124-38-9	<5%	OSHA (TWA)- 5000ppm ACGIH (TWA)- 5000ppm

3 HAZARDS IDENTIFICATION

Route of Entry: Eyes, skin, inhalation, ingestion

Target Organs:

Inhalation: Overexposure to vapor may cause dizziness, loss of concentration and irritation. With high exposure levels, effects can include central nervous system (CNS), depression (intoxication) and cardiac arrhythmia. Product vapors displace air and can cause suffocation especially in confined space. Inhalation of high airborne concentration can also irritate mucous membranes, cause headaches, sleepiness, nausea, confusion, loss of consciousness, digestive and visual disturbances and death. Aspiration may cause rapid absorption through the lungs, which may result in systemic effects.

Skin Contact: Prolonged contact may cause irritation, defatting of skin.

Eye Contact: Contact with liquid or mist may cause irritation. Vapors may irritate eyes.

Ingestion: Swallowing even small amounts of methanol can cause blindness and death; other effects may be nausea, headache, abdominal pain, vomiting and visual disturbances ranging from blurred vision to light sensitivity.

May aggravate a pre-existing skin and respiratory disorders.



Ice Blaster

MSDS Number: IB aerosol

Revision Date: 01/09/12

Page 2 of 7

Physical Hazard: Aerosol containers are pressurized (even when empty!) Do not expose to temperatures above 120° F. Do not puncture or burn can. Failure to observe these precautions may result in rapid and violent decompression of the container producing projectiles and atomization of the liquid contents.

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

4 FIRST AID MEASURES

- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Continue to monitor. Get medical attention.
- Skin Contact:** Remove contaminated clothing immediately! Wash skin with soap and water. If irritation develops, seek medical attention.
- Eye Contact:** Flush eye(s) with water for 15 minutes. Get medical attention. If eye irritation persists, obtain medical treatment.
- Ingestion:** Do not induce vomiting.! Get medical attention immediately!

5 FIRE FIGHTING MEASURES

Flashpoint: lowest component 52°F (TCC) - Actual Flashpoint of complete product is estimated to be higher.

Unusual Fire & Explosion Hazard: Although this aerosol product is classified as nonflammable under ASTM D 3065-77 Flame Projection Test, this product should not be used or stored near any open flames or ignition sources. Contents under pressure. Self-pressurized aerosol containers. Keep temperature of containers below 120 deg. F. to prevent bursting.

Extinguishing Media: Water fog, dry chemical, carbon dioxide

Special Fire Fighting Procedures: Water may be used to cool closed containers to prevent pressure build-up and possible bursting when exposed to high temperatures. Firemen should wear self-contained, positive pressure, respiratory equipment.

6 ACCIDENTAL RELEASE MEASURES

Spill or Leak Procedure: Leaking aerosol cans should be put into suitable container until the internal pressure has dissipated.

Waster Disposal Method: Dispose of in accordance with local, state and federal regulations.

7 HANDLING AND STORAGE

- Handling Precautions:** Use in accordance with good industrial workplace practices. Avoid unnecessary contact. Wash thoroughly after handling. Use with good ventilation.
- Storage Requirements:** Store in a dry place away from excessive heat. Store containers with lids on and properly labeled.
- Do not store at temperatures above 120 degrees F.



Ice Blaster

MSDS Number: IB aerosol

Revision Date: 01/09/12

Page 3 of 7

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eye wash stations and emergency showers should be immediately available.

Protective Equipment:

Eyes and Face: Standard safety glasses with splash shields typically offer adequate protection. Where excessive splashing or spraying is possible, a face shield should be used.

Skin and clothing: Excessive contact should be avoided. Neoprene gloves, boots and aprons will provide adequate protection when contact cannot be avoided. Remove and wash any contaminated clothing immediately. Wash thoroughly after handling.

Respiratory: Good general ventilation should be sufficient to control airborne levels. Maintain airborne concentrations below OSHA established exposure limits of ingredients in Section 2.

Exposure Guidelines/Other: The Blaster Chemical Companies takes no responsibility for determining what measures are required for personal protection in any specific application. This information should be used with discretion.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid	Boiling Point:	Concentrate range 200F
Physical State:	Aerosol	Freezing/Melting Pt.:	Not determined
Odor:	Irritating at high concentrations	Solubility:	Negligible
pH:	Not determined	Spec Grav./Density:	0.9 (water = 1)
Vapor Pressure:	Not determined		
Vapor Density:	>1 (air = 1)		
Heat Value:	Not determined		
VOC:	approx 50%		
Evap. Rate:	>1 (NBA = 1)		
Bulk Density:	Not determined		
Octanol:	Not applicable		
Molecular Weight:	Not determined		
Particle Size:	Not applicable		
Softening Point:	Not applicable		
Viscosity:	Not determined		
Percent Volatile:	100		
Sat. Vap. Concentrat.:	Not determined		
Molecular Formula:	Not determined		

Ice Blaster

MSDS Number: IB aerosol

Revision Date: 01/09/12

Page 4 of 7

10 STABILITY AND REACTIVITY

Stability:	This product is stable.
Conditions to avoid:	Avoid excessive heat, sources of ignition and excessive water.
Materials to avoid (incompatibility):	Avoid contact with strong oxidizing agents and strong reducing agents (strong acids or bases.) Avoid mixture with water.
Hazardous Decomposition products:	Carbon monoxide, carbon dioxide.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

METHANOL

LD50/LC50:

CAS# 67-56-1:

Draize test, rabbit, eye: 40 mg Moderate;

Draize test, rabbit, eye: 100 mg/24H Moderate;

Draize test, rabbit, skin: 20 mg/24H Moderate;

Inhalation, rabbit: LC50 = 81000 mg/m³/14H;

Inhalation, rat: LC50 = 64000 ppm/4H;

Oral, mouse: LD50 = 7300 mg/kg;

Oral, rabbit: LD50 = 14200 mg/kg;

Oral, rat: LD50 = 5600 mg/kg;

Skin, rabbit: LD50 = 15800 mg/kg;

Human LDLo Oral: 143 mg/kg; Human LDLo Oral: 428 mg/kg; Human TCLo Inhalation; 300 ppm caused visual field changes & headache; Monkey LDLo Skin: 393 mg/kg. Methanol is significantly less toxic to most experimental animals than humans, because most animal species metabolize methanol differently. Non-primate species do not ordinarily show symptoms of metabolic acidosis or the visual effects which have been observed in primates and humans.

Carcinogenicity:

CAS# 67-56-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found

Teratogenicity: There is no human information available. Methanol is considered to be a potential developmental hazard based on animal data. In animal experiments, methanol has caused fetotoxic or teratogenic effects without maternal toxicity.

Reproductive Effects: See actual entry in RTECS for complete information.

Mutagenicity: See actual entry in RTECS for complete information.

Neurotoxicity: ACGIH cites neuropathy, vision and CNS under TLV basis.

ETHYLENE GLYCOL

Routes of Entry: Absorbed through skin. Ingestion.

Toxicity to Animals:

Acute oral toxicity (LD50): 4700 mg/kg [Rat]. Acute toxicity of the vapor (LC50): >200 mg/m³ 4 hours [Rat].

Chronic Effects on Humans:

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Non-mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, central nervous system (CNS).

Other Toxic Effects on Humans:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant, permeator), of inhalation.

Special Remarks on Toxicity to Animals:

Lowest Published Toxic Dose/Conc: TDL [Man] - Route: oral; Dose: 15gm/kg Lethal Dose/Conc 50% Kill LD50 [Rabbit] -

Ice Blaster

MSDS Number: IB aerosol

Revision Date: 01/09/12

Page 5 of 7

Route: dermal; Dose: 9530 ul/kg

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. No human data has been reported at this time. May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. May cause more severe response if skin is abraded. A single prolonged exposure is not likely to result in material being absorbed through skin in harmful amounts. Massive contact with damaged skin may result in absorption of potentially harmful amounts Eyes: Vapors or mist may cause temporary eye irritation (mild temporary conjunctival inflammation) and lacrimation. Corneal injury is unlikely or insignificant. Ingestion: It is rapidly absorbed from the gastrointestinal tract. Oral toxicity is expected to be moderate in humans due to Ethylene Glycol even though tests with animals show a lower degree of toxicity. Excessive exposure (swallowing large amounts) may cause gastrointestinal tract irritation with nausea, vomiting, abdominal discomfort, diarrhea. It can affect behavior/central nervous system within 0.5 to 12 hours after ingestion. A transient inebriation with excitement, stupor, headache, slurred speech, ataxia, somnolence, and euphoria, similar to ethanol intoxication, can occur within the first several hours. As the Ethylene Glycol is metabolized, metabolic acidosis and further central nervous system depression (convulsions, muscle weakness) develop. Serious intoxication may develop to coma associated with hypotonia, hyporeflexia, and less commonly seizures, and meningismus. 12 to 24 hours

12

ECOLOGICAL INFORMATION

METHANOL

Ecotoxicity: Fish: Fathead Minnow: 29.4 g/L; 96 Hr; LC50 (unspecified) Fish: Goldfish: 250 ppm; 11 Hr; resulted in death Fish: Rainbow trout: 8000 mg/L; 48 Hr; LC50 (unspecified) Fish: Rainbow trout: LC50 = 13-68 mg/L; 96 Hr.; 12 degrees C Fish: Fathead Minnow: LC50 = 29400 mg/L; 96 Hr.; 25 degrees C, pH 7.63 Fish: Rainbow trout: LC50 = 8000 mg/L; 48 Hr.; Unspecified Bacteria: Phytobacterium phosphoreum: EC50 = 51,000-320,000 mg/L; 30 minutes; Microtox test No data available.

Environmental: Dangerous to aquatic life in high concentrations. Aquatic toxicity rating: TLM 96 > 1000 ppm. May be dangerous if it enters water intakes. Methyl alcohol is expected to biodegrade in soil and water very rapidly. This product will show high soil mobility and will be degraded from the ambient atmosphere by the reaction with photochemically produced hydroxyl radicals with an estimated half-life of 17.8 days. Bioconcentration factor for fish (golden ide) < 10. Based on a log Kow of -0.77, the BCF value for methanol can be estimated to be 0.2.

ETHYLENE GLYCOL

Ecotoxicity: Ecotoxicity in water (LC50): 41000 mg/l 96 hours [Fish (Trout)]. 46300 mg/l 48 hours [water flea]. 34250 mg/l 96 hours [Fish (bluegill fish)]. 34250 mg/l 72 hours [Fish (Goldfish)].

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

13

DISPOSAL CONSIDERATIONS

Used or unused product should be disposed of in accordance with local, state, and federal regulations. Some special regulations may exist for the disposal of empty aerosol containers.

Empty containers may contain residual pressure and contents. They should be handled with the same precautions as the product.



Ice Blaster

MSDS Number: IB aerosol

Revision Date: 01/09/12

Page 6 of 7

14 TRANSPORT INFORMATION

Dept. of Transportation (DOT):

This product, as it leaves Blaster's facilities, meets the definitions set forth in CFR 49 part 173.150c as a "consumer commodity." Allowing for certain exceptions (173.156) for domestic surface (ground) shipments.

Proper shipping name: Consumer Commodity

Hazard class: ORM-D

15 REGULATORY INFORMATION

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Superfund Amendments Reauthorization Act (SARA TITLE) III:

Hazard Category For Section 311/312: Acute Health, Fire Hazard, Sudden Release of Pressure

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: Methanol

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

Consumer Product Safety Act General Conformity Certification: This product was evaluated by The Blaster Corporation, and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location listed in Section 1 of this MSDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above.



Ice Blaster

MSDS Number: IB aerosol

Revision Date: 01/09/12

Page 7 of 7

16 OTHER INFORMATION

Manufacturer's Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, neither The Blaster Chemical Companies 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 which exist.

HMS Ratings:

Health:	2
Fire:	1
Reactivity:	0

END OF MSDS DOCUMENT