

ICE BLASTER



SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade Name ICE BLASTER
Product Code 16-IB

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Automotive De-Icing
Uses Advised Against None

Company Identification The Blaster Corporation
8500 Sweet Valley Drive
Valley View, Ohio 44125

Telephone (216) 901-5800

Fax (216) 901-5801

Website: www.blastercorp.com

Emergency telephone number CHEMTREC 24 hr. 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

Flam. Aerosol 1; Compressed dissolved gas; Acute Tox. 3; STOT SE 1; STOT RE 2

Label elements

Hazard Symbol



DANGER

Signal word(s)

Hazard Statement(s)

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Toxic if inhaled.
Toxic in contact with skin.
Toxic if swallowed.
Causes damage to organs: Optic nerve, Central nervous system
May cause damage to organs through prolonged or repeated exposure: oral, Kidneys.

Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands and exposed skin after use.
Do not eat, drink or smoke when using this product.
Keep out of reach of children.
Intentional inhalation of gas from the container may be fatal.

Other hazards

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s) *	% wt. *	CAS No.	Hazard classification
Methanol	30 - 60	67-56-1	Flam. Liq. 2; H225 Acute Tox. 3; H301, H311, H331 STOT SE 1; H370
Ethylene Glycol	2 - 10	107-21-1	Acute Tox. 4; H302 STOT RE 2; H373
Carbon Dioxide	1 - 3	124-38-9	Compressed dissolved gas; H280 Simple asphyxiant

Additional Information - None

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention. Call a POISON CENTER/doctor if you feel unwell.
Skin Contact	IF ON SKIN: Wash with plenty of water. Get immediate medical attention. Take off immediately all contaminated clothing and wash it before reuse.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Ingestion	Do not give anything by mouth to an unconscious person. Get immediate medical attention. Rinse mouth. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

If exposed or concerned: Get medical attention/advice.

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Extinguish with carbon dioxide, dry chemical, foam or waterspray.
-Unsuitable Extinguishing Media	Do not use water jet.

Special hazards arising from the substance or mixture

Highly flammable vapour (flash point below 23°C).

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid contact with skin and eyes. Avoid breathing gas/spray.

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Environmental precautions	Prevent liquid entering sewers, basements and work pits.
Methods and material for containment and cleaning up	Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.
Reference to other sections	None
Additional Information	None

SECTION 7: HANDLING AND STORAGE




Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Use product in a well-ventilated area only. Do not use in confined spaces.
Conditions for safe storage, including any incompatibilities	
-Storage temperature	Store locked up. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Keep container tightly closed.
-Incompatible materials	This product should be stored away from sources of strong heat or oxidizing chemicals.
Specific end use(s)	Automotive De-Icing

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Methanol	67-56-1	200 ppm	200 ppm	----	250 ppm	None
Ethylene Glycol^^	107-21-1	----	----	----	100 mg/m3 (ceiling)	Aerosol
Carbon dioxide	124-38-9	----	5000 ppm	----	30,000 ppm	----

^^ACGIH® Notice of Intended Changes (2014) = 10 mg/m3 (8hr TWA); inhalable fraction and vapor.

Recommended monitoring method	NIOSH 2000 (Methanol); NIOSH 5523 (Glycols)
Exposure controls	
Appropriate engineering controls	Ensure adequate ventilation.
Personal protection equipment	
Eye/face protection	Wear protective eyewear (goggles, face shield, or safety glasses).
	
Skin protection (Hand protection/ Other)	Wear suitable gloves if prolonged skin contact is likely (Butyl rubber)
	
Respiratory protection	Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.
	
Thermal hazards	Not normally required. Use gloves with insulation for thermal protection, when needed.

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Environmental Exposure Controls

None known

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Aerosol spray
Color	Colourless
Odor	Methanol / Alcohol-like
Odor Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	~ -50°C (-58°F)
Boiling point/boiling range (°C):	~77°C (170°F)
Flash Point (°C)	~23°C (73°F)
Evaporation Rate	Not available
Flammability (solid, gas)	Extremely flammable
Explosive Limit Ranges	6.7% - 36.0% v/v (Methanol)
Vapor pressure (Pascal)	Not available
Vapor Density (Air=1)	1.11 (Methanol)
Density (g/ml)	Not available.
Solubility (Water)	Miscible
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	Not available
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	Not available
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Avoid contact with heat and ignition sources.
Incompatible materials	This product should be stored away from sources of strong heat or oxidizing chemicals.
Hazardous decomposition product(s)	Carbon monoxide, Carbon dioxide, Other, Acrid smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Methanol (CAS# 67-56-1)

Acute toxicity *

LD50 (oral, monkey): 7000 mg/kg-bw
LD0 (oral, rat): \geq 2528 mg/kg-bw
LC50 (inhal., cat, 6-hours): 43.68 mg/L
LC50 (inhal., monkey, 4-hours): 52 mg/L
Ingestion may damage the optic nerve.
May cause dizziness and drowsiness.

Irritation

May cause eye irritation.

Sensitisation

It is not a skin sensitiser.

Repeated dose toxicity

NOAEC (2-yr. inhal., mouse): \geq 1.3 mg/L

Developmental Toxicity

Negative. Not a specific developmental toxin.

Toxicity for reproduction

Negative. Not a specific reproductive toxin.

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Mutagenicity Negative

Carcinogenicity

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Other information

- * ATE (oral) = 100 mg/kg
- * ATE (dermal) = 300 mg/kg
- * ATE (inhalation) = 3 mg/L

*ATE = Acute Toxicity Estimate for purposes of classification

SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity:

Methanol (CAS# 67-56-1)

Short term

LC50 (96 hour): 15400 mg/L (*Lepomis macrochirus*)
 EC50 (48 hour): 18260 mg/L (*Daphnia magna*, mobility)
 EC50 (96 hour): 22000 mg/L (*Pseudokirchnerella subcapitata*)

Long Term

NOEC (28 days) 446.7 mg/l (*Fish*) QSAR
 NOEC (21 days): 208 mg/l (*Daphnia magna*) QSAR

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

	<u>U.S. DOT</u>	<u>Sea transport (IMDG)</u>	<u>Air transport (ICAO/IATA)</u>
UN number	1950	1950	1950
Proper Shipping Name	Aerosols, flammable	Aerosols, flammable	Aerosols, flammable
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Methanol	67-56-1	30 - 60	5000
Ethylene Glycol	107-21-1	2 - 10	5000

SARA 311/312 - Hazard Categories:

- Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Methanol	67-56-1	30 - 60

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Ethylene Glycol	107-21-1	2 - 10
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SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	----	----	----

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
Methanol	67-56-1	Developmental

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: September 2, 2014

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H225: Highly flammable liquid and vapour.
- H226: Flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H301: Toxic if swallowed.
- H302: Harmful if swallowed.
- H311: Toxic in contact with skin.
- H331: Toxic if inhaled.
- H370: Causes damage to organs:
- H373: May cause damage to organs *<state all organs affected if known>* through prolonged or repeated exposure.

Training advice: None.

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