



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** 758  
**Product name** **Fast Acting Windshield De-Icer**  
**Effective date** 13-Nov-2007  
**Company information** Claire Manufacturing  
500 Vista Ave.  
Addison, IL 60101 United States  
**Company phone** General Assistance 630-543-7600  
**Emergency telephone US** 800-424-9300  
**Emergency telephone outside US** 703-527-3887  
**Supersedes date** 17-Aug-2007

## 2. Hazards Identification

**Emergency overview** VAPOR HARMFUL.  
CONTENTS UNDER PRESSURE.  
Aerosol. Pressurized container may explode when exposed to heat or flame.  
  
Harmful in contact with eyes. Prolonged exposure may cause chronic effects. Poison-may be fatal or cause blindness if swallowed.

**OSHA regulatory status** This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

**Potential health effects**

**Eyes** Contact may irritate or burn eyes. Eye contact may result in corneal injury.

**Skin** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**Inhalation** Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.

**Ingestion** Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause delayed lung damage.

**Target organs** Central nervous system. Gastrointestinal tract. Respiratory system.

**Chronic effects** Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.

**Signs and symptoms** Discomfort in the chest. Corneal damage. Narcosis. Conjunctivitis. Defatting of the skin. Irritation.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Methanol	67-56-1	60 - 70
Isopropyl Alcohol	67-63-0	8 - 10
Ethylene Glycol	107-21-1	3 - 5
Propane	74-98-6	3 - 5
Carbon Dioxide	124-38-9	3 - 5
Non-hazardous and other components below reportable levels		10 - 20

## 4. First Aid Measures

**First aid procedures**

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.

**Skin contact** Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists.

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Ingestion**

Have victim rinse mouth thoroughly with water. Get medical attention immediately. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Notes to physician**

Symptoms may be delayed.

**General advice**

Call a physician if symptoms develop or persist.

## 5. Fire Fighting Measures

**Flammable properties**

Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.

**Extinguishing media****Suitable extinguishing media**

Water fog. Foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**Protection of firefighters****Protective equipment and precautions for firefighters**

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

## 6. Accidental Release Measures

**Personal precautions**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.

**Methods for containment**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.

**Methods for cleaning up**

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

## 7. Handling and Storage

**Handling**

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.

**Storage**

Level 2 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Keep in an area equipped with sprinklers. Keep out of the reach of children. Use care in handling/storage.

## 8. Exposure Controls / Personal Protection

**Exposure limits****ACGIH**

Components	CAS #	TWA	STEL	Ceiling
Methanol	67-56-1	200 ppm	250 ppm	Not established
Isopropyl Alcohol	67-63-0	200 ppm	400 ppm	Not established
Ethylene Glycol	107-21-1	Not established	Not established	100 mg/m <sup>3</sup>
Propane	74-98-6	1000 ppm	Not established	Not established
Carbon Dioxide	124-38-9	5000 ppm	30000 ppm	Not established

**OSHA**

Components	CAS #	TWA	STEL	Ceiling
Methanol	67-56-1	200 ppm	Not established	Not established
Isopropyl Alcohol	67-63-0	400 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Carbon Dioxide	124-38-9	5000 ppm	Not established	Not established

<b>Engineering controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Wear chemical goggles.
<b>Skin protection</b>	Protective gloves.
<b>Respiratory protection</b>	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General hygiene considerations</b>	When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Compressed liquefied gas.
<b>Color</b>	Clear.
<b>Odor</b>	Alcoholic.
<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol.
<b>Flammability (HOC)</b>	27.1517 kJ/g estimated
<b>Flash back</b>	No
<b>Pressure</b>	9.5 - 10.5 psig @ 70F
<b>Solubility</b>	Partially
<b>Flash point</b>	-156 °F (-104.4 °C) estimated
<b>Boiling point</b>	167 °F (75 °C) estimated
<b>Specific gravity</b>	0.8369 estimated
<b>pH</b>	Not applicable

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Risk of ignition. Stable at normal conditions.
<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>Hazardous decomposition products</b>	May include oxides of nitrogen.

## 11. Toxicological Information

<b>Acute effects</b>	Acute LD50: 6554 mg/kg estimated, Rat, Oral Acute LD50: 14172 mg/kg estimated, Rat, Dermal Acute LC50: 110 mg/l/4h estimated, Rat, Inhalation
<b>Sensitization</b>	Not expected to be hazardous by OSHA criteria.
<b>Local effects</b>	Contact may irritate or burn eyes. Components of the product may be absorbed into the body through the skin.
<b>Chronic effects</b>	Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
<b>Neurological effects</b>	Hazardous by OSHA criteria.
<b>Mutagenicity</b>	Not expected to be hazardous by OSHA criteria.
<b>Reproductive effects</b>	Not expected to be hazardous by OSHA criteria.
<b>Teratogenicity</b>	Not expected to be hazardous by OSHA criteria.
<b>Epidemiology</b>	Hazardous by OSHA criteria.
<b>Further information</b>	Symptoms may be delayed.

## 12. Ecological Information

**Ecotoxicity** LC50 18952 mg/L estimated, Fish, 96.00 Hours,  
IC50 10060 mg/L estimated, Algae, 72.00 Hours,  
Components of this product have been identified as having potential environmental concerns.

## 13. Disposal Considerations

**Waste codes** D001: Waste Flammable material with a flash point <140 F  
**Disposal instructions** Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Incinerate the material under controlled conditions in an approved incinerator. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

#### Basic shipping requirements:

**Proper shipping name** Consumer commodity  
**Hazard class** ORM-D  
**Subsidiary hazard class** None  
**Additional information:**  
**Packaging exceptions** 156, 306  
**Packaging non bulk** 156, 306  
**Packaging bulk** None

### IMDG

#### Basic shipping requirements:

**Proper shipping name** AEROSOLS, flammable  
**Hazard class** 2.1  
**UN number** 1950  
**Additional information:**  
**Packaging exceptions** LTD QTY  
**Item** 5F  
**Labels required** 2.1  
**Transport Category** 2



### IATA

#### Basic shipping requirements:

**Proper shipping name** Aerosols, flammable  
**Hazard class** 2.1  
**UN number** 1950  
**Additional information:**  
**Packaging exceptions** LTD QTY



## 15. Regulatory Information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

### CERCLA (Superfund) reportable quantity

Methanol: 5000.0000  
Ethylene Glycol: 5000.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - Yes  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations****U.S. - Pennsylvania - RTK (Right to Know) List**

Carbon Dioxide	124-38-9	Present
Ethylene Glycol	107-21-1	Environmental hazard
Isopropyl Alcohol	67-63-0	Environmental hazard
Methanol	67-56-1	Environmental hazard
Propane	74-98-6	Present

**16. Other Information****HMIS® ratings**

Health: 1\*  
 Flammability: 3  
 Physical hazard: 0

**Prepared by**

Regulatory Compliance

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Issue date**

13-Nov-2007