# CRO

# SAFETY DATA SHEET

# 1. Identification

Product identifier Ice-Off™ Windshield Spray De-Icer - 340 g

Other means of identification

Product Code No. 75346 (Item# 1006379)
Recommended use Melt ice on windshields

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Canada Co.

Address 83 Galaxy Blvd
Unit 35 - 37

T ... ON MO

Toronto, ON M9W 5X6

Canada

Telephone

**General Information** 416-847-7750

24-Hour Emergency

800-424-9300 (Canada)

(CHEMTREC)
Website

www.crc-canada.ca

E-mail Support.CA@crcindustries.com

#### 2. Hazard identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Compressed gas
Physical hazards not otherwise classified Category 1

Acute toxicity, oral Category 3
Acute toxicity, dermal Category 3

Acute toxicity, inhalation Category 3
Reproductive toxicity Category 2

Specific target organ toxicity, single exposure Category 1 (central nervous system, eyes)

(oral)

Environmental hazards Not classified.

Label elements

**Health hazards** 



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Static

accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Suspected of damaging fertility. Causes

damage to organs (central nervous system, eyes) by ingestion.

Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. 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. Ground and bond container and receiving equipment. These alone may be insufficient to remove static electricity. Do not pierce or burn, even after use. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this

product. Wear protective gloves/protective clothing/eye protection/face protection.

Material name: Ice-Off™ Windshield Spray De-Icer - 340 g No. 75346 (Item# 1006379) Version #: 01 Issue date: 09-06-2019 Response IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. IF ON SKIN: Wash

with plenty of water. Call a POISON CENTER/doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor. In case of leakage, eliminate all

ignition sources.

Storage Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated

place. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Eve contact

Ingestion

Chemical name	Common name and synonyms	CAS number	%
methanol		67-56-1	80 - 100
carbon dioxide		124-38-9	3 - 7
water		7732-18-5	3 - 7

The exact percentage (concentration) of composition has been withheld as a trade secret.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device. Call a POISON CENTER or doctor/physician.

**Skin contact**Take off immediately all contaminated clothing. Wash off with soap and water. Get medical

advice/attention if you feel unwell. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. 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.

Most important symptoms/effects, acute and delayed

functions.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

Narcosis. Headache. Dizziness. Nausea, vomiting. Behavioral changes. Decrease in motor

under observation. Symptoms may be delayed.

General information

Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

# 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion do not breathe fumes.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop leak if you can do so without risk. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

# 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

**US. ACGIH Threshold Limit Values** 

Components	Туре	Value	
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	

# Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) Components Type Value

carbon dioxide (CAS STEL 54000 mg/m3 124-38-9)

---,

SDS CANADA

Components	Туре	Value
		30000 ppm
	TWA	9000 mg/m3
		5000 ppm
methanol (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 ppm
Canada. British Columbia OELs. Safety Regulation 296/97, as ame		for Chemical Substances, Occupational Health and
Components	Туре	Value
carbon dioxide (CAS 124-38-9)	STEL	15000 ppm
	TWA	5000 ppm
methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
Canada. Manitoba OELs (Reg. 21	7/2006, The Workplace Safety A	nd Health Act)
Components	Туре	Value
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
nethanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
Canada. Ontario OELs. (Control o Components	of Exposure to Biological or Che Type	emical Agents) Value
carbon dioxide (CAS 124-38-9)	STEL	30000 ppm
	TWA	5000 ppm
methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm
Canada. Quebec OELs. (Ministry Components	of Labor - Regulation respecting Type	g occupational health and safety) Value
carbon dioxide (CAS 124-38-9)	STEL	54000 mg/m3
		30000 ppm
	TWA	9000 mg/m3
		5000 ppm
methanol (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 ppm
Canada. Saskatchewan OELs (Od Components	ccupational Health and Safety Re Type	egulations, 1996, Table 21) Value
carbon dioxide (CAS	15 minute	30000 ppm
124-38-9)	, <del></del>	PP···
•	9 hour	5000 ppm

methanol (CAS 67-56-1)

SDS CANADA

No. 75346 (Item# 1006379) Version #: 01 Issue date: 09-06-2019

8 hour

8 hour

15 minute

5000 ppm

250 ppm 200 ppm

#### **Biological limit values**

#### **ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time	
methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*	

<sup>\* -</sup> For sampling details, please see the source document.

#### **Exposure guidelines**

Canada - Alberta OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Can be absorbed through the skin. methanol (CAS 67-56-1)

Canada - Ontario OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Can be absorbed through the skin. methanol (CAS 67-56-1)

**US ACGIH Threshold Limit Values: Skin designation** 

methanol (CAS 67-56-1) Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear protective gloves such as: Nitrile. Rubber. **Hand protection** Other Wear appropriate chemical resistant clothing.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained

breathing apparatus in confined spaces and for emergencies.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

**Physical state** Liquid. **Form** Aerosol. Color Colorless. Odor Pungent. **Odor threshold** Not available. Not available.

-144 °F (-97.8 °C) estimated Melting point/freezing point Initial boiling point and boiling 148.5 °F (64.7 °C) estimated

range

Flash point 54 °F (12.2 °C) Tag Closed Cup

Fast. **Evaporation rate** 

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Flammability limit - lower

2.6 % estimated

(%)

Flammability limit - upper

(%)

36 % estimated

Vapor pressure 3272.4 hPa estimated

Vapor density 1.1 (air = 1)

Relative density 0.84 estimated

Solubility(ies)

Solubility (water) Completely soluble.

Partition coefficient (n-octanol/water)

Not available.

**Auto-ignition temperature** 

725 °F (385 °C) estimated

**Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Percent volatile 94.4 % estimated

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Heat. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Aluminum.

**Hazardous decomposition** 

products

Carbon oxides. Formaldehyde.

# 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** Toxic if inhaled.

**Skin contact** Toxic in contact with skin.

**Eye contact** Direct contact with eyes may cause temporary irritation.

**Ingestion** Toxic if swallowed. Causes damage to organs by ingestion. Even small amounts (30-250 ml

methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder

and blindness.

Symptoms related to the physical, chemical and toxicological characteristics

Narcosis. Headache. Dizziness. Nausea, vomiting. Behavioral changes. Decrease in motor

functions.

# Information on toxicological effects

Acute toxicity Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed.

Components Species Test Results

methanol (CAS 67-56-1)

Acute Dermal

LD50 Rabbit 12800 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation**Prolonged skin contact may cause temporary irritation. **Serious eye damage/eye**Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

No. 75346 (Item# 1006379)

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** Suspected of damaging fertility.

Specific target organ toxicity -

single exposure

Causes damage to organs (central nervous system, eyes) by ingestion.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

**Chronic effects** Prolonged exposure may cause chronic effects.

# 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components Species Test Results

methanol (CAS 67-56-1)

**Aquatic** 

Crustacea EC50 Water flea (Daphnia magna) > 10000 mg/l, 48 hours
Fish LC50 Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours

### Persistence and degradability

#### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

methanol -0.77

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

# 14. Transport information

**TDG** 

UN number UN1950

UN proper shipping name

AEROSOLS, flammable, containing substances in Class 6.1, packing group III

Transport hazard class(es)

Class 2.1 Subsidiary risk 6.1(PGIII)

Packing group Not applicable.

Special precautions for user in

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions 8

IATA

UN number UN1950

UN proper shipping name Transport hazard class(es) Aerosols, flammable, containing substances in Division 6.1, Packing Group III

Class 2.1

Subsidiary risk 6.1(PGIII)
Packing group Not applicable.

ERG Code 10P

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

Material name: Ice-Off™ Windshield Spray De-Icer - 340 g

No. 75346 (Item# 1006379) Version #: 01 Issue date: 09-06-2019

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

### **IMDG**

UN number UN1950

**UN proper shipping name** Aerosols, flammable, containing substances in Division 6.1, Packing Group III

Transport hazard class(es)

Class 2.1

Subsidiary risk 6.1(PGIII)

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No. EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

### IATA; IMDG; TDG



# 15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

#### **Greenhouse Gases**

carbon dioxide (CAS 124-38-9)

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

methanol (CAS 67-56-1)

### **Precursor Control Regulations**

Not regulated.

### International regulations

# **Stockholm Convention**

Not applicable.

# **Rotterdam Convention**

Not applicable.

# **Kyoto protocol**

carbon dioxide (CAS 124-38-9)

**Montreal Protocol** 

Not applicable.

# **Basel Convention**

Not applicable.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

Listed.

Country(s) or regionInventory nameOn inventory (yes/no)\*JapanInventory of Existing and New Chemical Substances (ENCS)YesKoreaExisting Chemicals List (ECL)Yes

New ZealandNew Zealand InventoryNoPhilippinesPhilippine Inventory of Chemicals and Chemical SubstancesYes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information

**Issue date** 09-06-2019

Version # 01

Further information CRC # 638/1002679

**Disclaimer** The information contained in this document applies to this specific material as supplied. It may not

be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC's knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Canada Co..

**Revision information** Product and Company Identification: Product Codes

Accidental release measures: Personal precautions, protective equipment and emergency

procedures

Accidental release measures: Methods and materials for containment and cleaning up

Handling and storage: Precautions for safe handling

Handling and storage: Conditions for safe storage, including any incompatibilities

Physical & Chemical Properties: Multiple Properties Physical and chemical properties: Oxidizing properties Physical and chemical properties: Explosive properties

Transport Information: Agency Name, Packaging Type, and Transport Mode Selection

Other information: Disclaimer

GHS: Classification

Material name: Ice-Off™ Windshield Spray De-Icer - 340 g No. 75346 (Item# 1006379) Version #: 01 Issue date: 09-06-2019