



CRC® Freeze Spray, 283 g

Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)
Issue date: 2025-04-18 Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Trade name : CRC® Freeze Spray, 283 g
Product code : 1006227
Part number : 74086

1.2. Recommended use and restrictions on use

Recommended use : Dissipate heat and cool circuits
Restrictions on use : None known

1.3. Supplier

Manufactured or sold by:

CRC Canada Co.
83 Galaxy Blvd.
Unit 35 - 37
Toronto, ON M9W 5X6
Canada
T 416-847-7750
crcindustries.ca

1.4. Emergency telephone number

Emergency number : 800-424-9300 (CHEMTREC)
24-Hour Emergency

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Aerosol, Category 3 Pressurized container; may burst if heated.

2.2. GHS Label elements, including precautionary statements

GHS CA labeling

Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : Pressurized container; may burst if heated

Precautionary statements (GHS CA) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not pierce or burn, even after use.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container in accordance with local/regional/national regulations.

2.3. Other hazards

Other hazards which do not result in classification : When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride.

2.4. Unknown acute toxicity (GHS CA)

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
1,1,1,2-Tetrafluoroethane	HFC-134A	CAS-No.: 811-97-2	100

Comments : 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.

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : For liquid contact or direct spray effects, warm area gradually and get medical attention if there is evidence of tissue damage. Wash skin with plenty of water. Treat as frostbite.

First-aid measures after eye contact : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Call a physician if frostbite occurs.

First-aid measures after ingestion : Do not induce vomiting. Call a poison center/doctor/physician if you feel unwell.

First-aid measures general : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Contact with the liquefied gas may cause frostbite.

Symptoms/effects after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/effects after ingestion : None under normal conditions.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

Explosion hazard : Pressurized container may rupture when exposed to heat or flame.

Hazardous decomposition products in case of fire : When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride.

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5.4. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection.
- Protection during firefighting : Self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop leak if safe to do so. Eliminate every possible source of ignition. Absorb spillage to prevent material-damage. Notify authorities if product enters sewers or public waters.
- Personal Precautions, Protective Equipment and Emergency Procedures : Self-contained breathing apparatus.

6.2. Methods and materials for containment and cleaning up

- For containment : Stop leak, if possible without risk. Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.
- Additional Regulatory Information : Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not use if spray button is missing or defective. Exposure to high temperature may cause can to burst. Do not spray on exposed skin. Serious frostbite can occur. Use only outdoors or in a well-ventilated area. Maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use. Wear personal protective equipment. For product usage instructions, see the product label.
- Hygiene measures : Do not eat, drink or smoke when using this product. 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.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Level 1 Aerosol. Store in a well-ventilated place. Store in a cool, dry place out of direct sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
- Packaging materials : Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.
- Environmental exposure controls : Avoid release to the environment.

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Wear protective gloves such as: Neoprene.

Eye protection:

Wear safety glasses with side shields (or goggles).

Respiratory protection:

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: Colorless
Odor	: Ethereal
Melting point	: -101 °C (-149.87 °F) estimated
Freezing point	: -101 °C (-149.87 °F) estimated
Boiling point	: -26.4 °C (-15.5 °F) estimated
Flammability (solid, gas)	: Not applicable
Explosion limits	: No data available
Flash point	: None (Tag Closed Cup)
Auto-ignition temperature	: > 743 °C (> 1369.4 °F) estimated
Decomposition temperature	: 368 °C (694.4 °F) estimated
pH	: No data available
Viscosity, kinematic	: No data available
Solubility	: Water: 0.95 %
Partition coefficient n-octanol/water (Log Pow)	: No data available
Vapor pressure	: 4431.636 mm Hg @ 70 °F
Evaporation rate	: Very fast
Density	: No data available
Relative density	: 1.24
Relative vapor density at 20°C	: 3.5 (air=1)
Particle characteristics	: No data available

9.2. Additional Regulatory Information

No additional information available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Pressurized container: may burst if heated.
Possibility of hazardous reactions	: May mass explode in fire. Heating may cause a fire or explosion.
Conditions to avoid	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. High temperature. When exposed to extreme heat or hot surfaces, vapors may decompose to toxic gases such as hydrogen fluoride.

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Incompatible materials	: Alkali metals. Alkaline earth metals. Aluminum. Magnesium. Powdered metals. zinc. Strong oxidizing agents.
Hazardous decomposition products	: Carbon oxides (CO, CO ₂). Carbonyl fluoride. Hydrogen fluoride.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

1,1,1,2-Tetrafluoroethane (811-97-2)

LC50 Inhalation - Rat	359453.1 mg/kg Source: National Library of Medicine
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

1,1,1,2-Tetrafluoroethane (811-97-2)

NOAEC (inhalation, rat, gas, 90 days)	50000 ppm Animal: rat, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
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Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Contact with the liquefied gas may cause frostbite.
Symptoms/effects after eye contact	: Direct contact with the eyes is likely to be irritating.
Symptoms/effects after ingestion	: None under normal conditions.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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1,1,1,2-Tetrafluoroethane (811-97-2)

LC50 - Fish [1]	450 mg/l Test organisms (species): <i>Oncorhynchus mykiss</i> (previous name: <i>Salmo gairdneri</i>)
EC50 72h - Algae [2]	> 114 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i>)

12.2. Persistence and degradability

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Persistence and degradability	No data is available on the degradability of this product.
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12.3. Bioaccumulative potential

1,1,1,2-Tetrafluoroethane (811-97-2)

Partition coefficient n-octanol/water (Log Pow) 1.06 Source: International Chemical Safety Cards

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

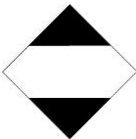
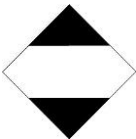

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Dispose of contents/container in accordance with local/regional/national regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Do not allow to enter sewers, surface or groundwater.
Product/Packaging disposal recommendations : Contents under pressure. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with TDG / IMDG / IATA

TDG	IMDG	IATA
14.1. UN number		
UN1950	1950	1950
14.2. Proper Shipping Name		
AEROSOLS (Limited quantity)	AEROSOLS (Limited quantity)	Aerosols, non-flammable (Limited quantity)
14.3. Transport hazard class(es)		
LTD QTY	LTD QTY	LTD QTY
		
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
No		

14.6. Special precautions for user

TDG

TDG Primary Hazard Classes : 2.2 - Class 2.2 - Non-Flammable, Non-Toxic Gases
UN-No. (TDG) : UN1950

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TDG Special Provisions	: 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL. (2) Subsection (1) does not apply to self-defence spray.
Explosive Limit and Limited Quantity Index	: 1 L
Excepted quantities (TDG)	: E0
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 75 L
Emergency Response Guide (ERG) Number	: 126

IMDG

Class (IMDG)	: 2.2 - Non-flammable, non-toxic gases
Special provision (IMDG)	: 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG)	: SP277
Excepted quantities (IMDG)	: E0
Packing instructions (IMDG)	: P207, LP200
Packing provisions (IMDG)	: PP87, L2
EmS-No. (Fire)	: F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES
EmS-No. (Spillage)	: S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)
Stowage category (IMDG)	: None
Stowage and handling (IMDG)	: SW1, SW22
Segregation (IMDG)	: SG69

IATA

Class (IATA)	: 2.2 - Gases : Non-flammable, Non-toxic
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provision (IATA)	: A98, A145, A167, A802
ERG code (IATA)	: 2L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

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All components of this product are listed on the DSL, NDSL, or are exempt from the inventory requirements.

Name	CAS-No.	Regulatory reference
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1,1,1,2-Tetrafluoroethane	811-97-2	Listed on the Canadian DSL (Domestic Substances List)
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15.2. International regulations

1,1,1,2-Tetrafluoroethane (811-97-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.2. Other Regulatory Information

Volatile Organic Compound Concentration Limits for Certain Products Regulations: SOR/2021-268

VOC content	0 %
Product Category	Pressurized-gas duster

SECTION 16: Other information

Issue date : 04-18-2025

Other information : CRC # 282/1002335.
Author : Joshua Weir

Safety Data Sheet (SDS), Canada, CRC

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