

SAFETY DATA SHEET

1. Identification

Product identifier Freeze Spray - 10 oz

Other means of identification

Product Code No. 14086 (Item# 1004820) Recommended use Dissipates heat and cool circuits

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

CRC Industries, Inc. Company name

Address 885 Louis Dr.

Warminster, PA 18974 US

Telephone 24-Hour Emergency

800-424-9300 (US)

(CHEMTREC) Website

crcindustries.com

800-556-5074

2. Hazard(s) identification

Liquefied gas Physical hazards Gases under pressure

Health hazards Not classified. Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Contains gas under pressure; may explode if heated.

Precautionary statement

Prevention Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49

°C/120 °F.

Wash hands after handling. Response

Protect from sunlight. Store in a well-ventilated place. Exposure to high temperature may cause Storage

can to burst. Do not place in direct sunlight or near any heat source.

Dispose of waste and residues in accordance with local authority requirements. Disposal

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal

corrosive gases such as hydrogen fluoride.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
1,1,1,2-tetrafluoroethane	HFC-134A	811-97-2	80 - 100

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Material name: Freeze Spray - 10 oz SDS US

4. First-aid measures

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Do NOT give epinephrine (adrenaline). Get medical attention if symptoms persist.

Skin contact

For liquid contact or direct spray effects, warm area gradually and get medical attention if there is

evidence of tissue damage. Flush area with plenty of water. Treat as frostbite.

Eye contact

For liquid contact or direct spray effects, immediately flush with plenty of water for 15 minutes. Call

a physician if frostbite occurs.

Ingestion

Do not induce vomiting. Call a physician immediately.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Dry chemical powder. Carbon dioxide (CO2). Water. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media

None known.

Specific hazards arising from

the chemical

Contents under pressure. During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen fluoride.

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. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

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. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid breathing gas. Avoid breathing mist or vapor. Vapors are heavier than air and may spread along floors. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, see the product label.

Conditions for safe storage. including any incompatibilities Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120 °F/49 °C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place.

Material name: Freeze Spray - 10 oz

2/8 No. 14086 (Item# 1004820) Version #: 03 Revision date: 07-19-2024 Issue date: 01-06-2021

8. Exposure controls/personal protection

Occupational exposure limits

US. Workplace Environmental Exposure Level (WEEL) Guides

Components Type Value 1,1,1,2-tetrafluoroethane **TWA** 4240 mg/m3 (CAS 811-97-2) 1000 ppm

No biological exposure limits noted for the ingredient(s). **Biological limit values**

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

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

Skin protection

Hand protection Wear protective gloves such as: Neoprene. Impervious gloves. Cold insulating gloves.

Other Wear suitable protective clothing.

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.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. 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

Liquid. Physical state **Form** Aerosol. Colorless. Color Ethereal. Odor **Odor threshold** Not available. Not available. pН Melting point/freezing point -149.8 °F (-101 °C)

Initial boiling point and boiling

-15.5 °F (-26.4 °C)

No. 14086 (Item# 1004820) Version #: 03 Revision date: 07-19-2024 Issue date: 01-06-2021

range

None (ASTM E681) Flash point

Evaporation rate Very fast. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Explosive limit - lower (%) Not applicable.

Explosive limit - upper (%) Not applicable.

6089.5 hPa estimated Vapor pressure

Vapor density 3.5 (air = 1)Relative density 1.24

Solubility(ies)

0.95 % Solubility (water)

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature >1369.4 °F (>743 °C) **Decomposition temperature** 694.4 °F (368 °C)

Material name: Freeze Spray - 10 oz

Viscosity Not available.

Other information

Partition coefficient

1.68

(oil/water)

Percent volatile 100 % 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, flames and sparks. Contact with incompatible materials.

Strong oxidizing agents. Alkali metals. Alkaline earth metals. Powdered metal. Aluminum. Incompatible materials

Magnesium. Zinc.

Hazardous decomposition

products

Hydrogen fluoride. Carbonyl fluoride. Carbon oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation of dispersed gas is not expected to cause negative effects. Inhalation of concentrated Inhalation

> vapor may product anesthetic effects and feeling of euphoria. Prolonged exposure can cause rapid breathing, headache, dizziness, narcosis, and unconsciousness. Deliberately inhaling this product can lead to death from asphyxiation depending on concentration and time of exposure.

Skin contact Contact with dispersed gas is not expected to cause negative effects. Contact with direct spray

can cause frostbite, irritation and dermatitis.

Contact with dispersed gas is not expected to cause negative effects. Contact with direct spray Eye contact

can cause severe irritation, redness, tearing, blurred vision, and possible freeze burns.

Ingestion Ingestion of liquid product may cause frostbite to mouth and throat. Liquid product may pose

aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Contact with dispersed gas is not expected to cause negative effects.

Information on toxicological effects

Acute toxicity None known.

Components **Species Test Results**

1,1,1,2-tetrafluoroethane (CAS 811-97-2)

Acute Inhalation

LC50 Rat 2215000 mg/m3, 4 Hours

500000 ppm, 4 Hours

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Contact with direct spray can cause

frostbite, irritation and dermatitis.

Serious eve damage/eve

irritation

Direct contact with eyes may cause temporary irritation. Contact with direct spray can cause

severe irritation, redness, tearing, blurred vision, and possible freeze burns.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

No. 14086 (Item# 1004820) Version #: 03 Revision date: 07-19-2024 Issue date: 01-06-2021

^{*} Estimates for product may be based on additional component data not shown.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

Not classified.

repeated exposure

Aspiration hazard Liquid product may pose aspiration hazard.

Prolonged inhalation may be harmful. **Chronic effects**

12. Ecological information

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

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

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential No data available. Partition coefficient n-octanol / water (log Kow)

1.68 1,1,1,2-tetrafluoroethane

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 This product, in its present state, when discarded or disposed of, is not a hazardous waste

according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.

Hazardous waste code Not regulated.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

emptied.

14. Transport information

DOT

UN number UN3159

UN proper shipping name Transport hazard class(es) 1,1,1,2-Tetrafluoroethane or Refrigerant gas R 134a, Limited Quantity

Class 2.2 Subsidiary risk 2.2 Label(s)

Not assigned. Packing group

Environmental hazards

Marine pollutant No.

Special precautions for user Inside containers comply with DOT-SP 10232.

Read safety instructions, SDS and emergency procedures before handling.

T50 Special provisions 306 Packaging exceptions 304 Packaging non bulk 314, 315 Packaging bulk

IATA

UN number UN1950

Aerosols, non-flammable, Limited Quantity **UN proper shipping name**

Transport hazard class(es)

Class 2.2 Subsidiary risk

Not assigned. Packing group

2L **ERG Code**

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

No. 14086 (Item# 1004820) Version #: 03 Revision date: 07-19-2024 Issue date: 01-06-2021

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, Limited Quantity

Transport hazard class(es)

2.2 **Class** Subsidiary risk

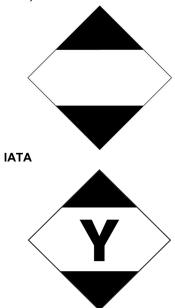
Not assigned. Packing group

Environmental hazards

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

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

DOT; IMDG



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.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Material name: Freeze Spray - 10 oz No. 14086 (Item# 1004820) Version #: 03 Revision date: 07-19-2024 Issue date: 01-06-2021

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Food and Drug Not regulated.

Administration (FDA)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No (Exempt)

Not regulated.

chemical

SARA 313 (TRI reporting)

Not regulated.

US state regulations

US. New Jersey Worker and Community Right-to-Know Act

Not Listed.

US. Massachusetts RTK - Substance List

Not Listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not Listed.

US. Rhode Island RTK

Not Listed.

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 0 %

51.100(s))

Consumer products Not

(40 CFR 59, Subpt. C)

Not regulated

State

Consumer products Not regulated

VOC content (CA) 0 % VOC content (OTC) 0 %

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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)

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).

Material name: Freeze Spray - 10 oz

16. Other information, including date of preparation or last revision

01-06-2021 Issue date 07-19-2024 **Revision date** Allison Yoon Prepared by

Version # 03

Further information CRC # 282/1002335

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 Industries, Inc..

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

Composition / Information on Ingredients: Component Summary

Physical & Chemical Properties: Multiple Properties

Transport Information: Proper Shipping Name/Packing Group

Material name: Freeze Spray - 10 oz

SDS US No. 14086 (Item# 1004820) Version #: 03 Revision date: 07-19-2024 Issue date: 01-06-2021