



# Safety Data Sheet

Issue Date: 05-Aug-2026

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Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** Arctic Edge R134A

### Other means of identification

**SDS #** LENZ-007

**UN/ID No** UN3159

### Recommended use of the chemical and restrictions on use

**Recommended use** Refrigerant.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

Lenz Sales & Distributing, Inc.  
4825 Waverly Road  
New Berlin, IL 62670  
Phone: 217-243-8103  
Fax: 217-670-6025  
Website: www.lenzdist.com

### Emergency telephone number

**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Colorless  
liquified gas

**Physical state** Gas

**Odor** Weak odor

### Classification

|                      |               |
|----------------------|---------------|
| Gases under pressure | Liquefied gas |
| Simple asphyxiants   | Yes           |

### Label elements

**Signal word**

Warning

**Hazard statements**

Contains gas under pressure; may explode if heated.

May displace oxygen and cause rapid suffocation.

**Precautionary Statements - Storage**

Protect from sunlight. Store in a well-ventilated place.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Mixture**

| Chemical name             | CAS No.  | Weight-% |
|---------------------------|----------|----------|
| 1,1,1,2-Tetrafluoroethane | 811-97-2 | 99.8     |

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST AID MEASURES****Description of first aid measures**

|                       |                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.                                                                                                                                                            |
| <b>Eye Contact</b>    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.                                                                                            |
| <b>Skin Contact</b>   | Rapid evaporation of the liquid may cause frostbite. In case of contact with liquid, thaw frosted parts with water, then remove clothing carefully.                                                             |
| <b>Inhalation</b>     | Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Administer oxygen if breathing is difficult. Call a physician. Do not give drugs from adrenaline-ephedrine group. |

**Ingestion** Ingestion is an unlikely route of exposure. As this product is a gas, refer to the inhalation section. Do not induce vomiting without medical advice. Call a physician immediately.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May displace oxygen and cause rapid suffocation.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Water spray (fog). Alcohol resistant foam. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

The product is not flammable. However, this material can ignite when mixed with air under pressure and exposed to strong ignition sources. Container may rupture on heating. Cool closed containers exposed to fire with water spray.

**Hazardous combustion products** Hydrogen fluoride. Carbon oxides. Carbonyl halides.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment as required. Remove all sources of ignition. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation: gas will displace oxygen and cause rapid suffocation in confined areas.

**Environmental precautions**

**Environmental precautions** The product evaporates readily. Prevent product from entering drains. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Product will evaporate.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe** Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation.

**Handling** Pressurized container: Do not pierce or burn, even after use.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a cool, well-ventilated place. Containers should be protected against falling down. Protect from warmth. Do not store at temperature exceeding 50°C (122°F). Keep away from direct sunlight.

**Incompatible Materials** Oxidizing agents. Finely divided metal powders such as aluminum, magnesium, or zinc.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits.

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

**Eye/Face Protection** Wear eye/face protection. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection** Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                       |                         |                       |                          |
|-----------------------|-------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | Gas                     | <b>Odor</b>           | Weak odor                |
| <b>Appearance</b>     | Colorless liquified gas |                       |                          |
| <b>Color</b>          | Colorless               | <b>Odor Threshold</b> | No information available |

| <b><u>Property</u></b>                       | <b><u>Values</u></b>     | <b><u>Remarks • Method</u></b> |
|----------------------------------------------|--------------------------|--------------------------------|
| <b>pH</b>                                    | neutral                  |                                |
| <b>Melting point / freezing point</b>        | -101 °C / -149.8 °F      |                                |
| <b>Initial boiling point / boiling range</b> | -26.2 °C / -15.16 °F     |                                |
| <b>Flash point</b>                           | No information available |                                |

|                                               |                                                                  |
|-----------------------------------------------|------------------------------------------------------------------|
| <b>Evaporation rate</b>                       | >1                                                               |
| <b>Flammability (Solid, Gas)</b>              | No information available                                         |
| <b>Flammability Limit in Air</b>              |                                                                  |
| <b>Upper flammability or explosive limits</b> | No information available                                         |
| <b>Lower flammability or explosive limits</b> | No information available                                         |
| <b>Vapor Pressure</b>                         | 5,915 hPa at 21.1 °C(70.0 °F)<br>14,713 hPa at 54.4 °C(129.9 °F) |
| <b>Relative vapor density</b>                 | 3.5                                                              |
| <b>Relative Density</b>                       | 1.2 g/cm <sup>3</sup>                                            |
| <b>Water Solubility</b>                       | 1.5 g/l                                                          |
| <b>Solubility in other solvents</b>           | No information available                                         |
| <b>Partition Coefficient</b>                  | log Pow: 1.06 Note: The product is more soluble in octanol.      |
| <b>Autoignition temperature</b>               | No information available<br>> 750 °C                             |
| <b>Decomposition temperature</b>              | > 250°C                                                          |
| <b>Kinematic viscosity</b>                    | No information available                                         |
| <b>Dynamic viscosity</b>                      | No information available                                         |
| <b>Particle characteristics</b>               | No information available                                         |
| <b>Explosive Properties</b>                   | No information available                                         |
| <b>Oxidizing Properties</b>                   | No information available                                         |
| <b>Other information</b>                      |                                                                  |
| <b>Molecular weight</b>                       | 102.02 g/mol                                                     |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous  
Polymerization**

Hazardous polymerization does not occur.

**Conditions to Avoid**

Keep out of reach of children.

**Incompatible materials**

Oxidizing agents. Finely divided metal powders such as aluminum, magnesium, or zinc.

**Hazardous decomposition products**

Halogenated compounds. Hydrogen fluoride. Carbonyl halides. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Do not ingest.

**Component Information**

| Chemical name                         | Oral LD50 | Dermal LD50 | Inhalation LC50                     |
|---------------------------------------|-----------|-------------|-------------------------------------|
| 1,1,1,2-Tetrafluoroethane<br>811-97-2 | -         | -           | = 1500 g/m <sup>3</sup> ( Rat ) 4 h |

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

No information available.

## 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.

**Component Information**

| Chemical name                         | Algae/aquatic plants | Fish                                         | Crustacea |
|---------------------------------------|----------------------|----------------------------------------------|-----------|
| 1,1,1,2-Tetrafluoroethane<br>811-97-2 |                      | LC50: ≈450mg/L (96h,<br>Oncorhynchus mykiss) |           |

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

| Chemical name                         | Partition coefficient |
|---------------------------------------|-----------------------|
| 1,1,1,2-Tetrafluoroethane<br>811-97-2 | 1.06                  |

**Other adverse effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

**Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

**UN/ID No** UN3159  
**Proper Shipping Name** 1,1,1,2-tetrafluoroethane  
**Transport hazard class(es)** 2.2

**IATA**

**UN number or ID number** UN3159  
**Proper Shipping Name** 1,1,1,2-tetrafluoroethane  
**Transport hazard class(es)** 2.2

**IMDG**

UN number or ID number UN3159  
 Proper Shipping Name 1,1,1,2-tetrafluoroethane  
 Transport hazard class(es) 2.2  
 EmS-No F-C, S-V

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**International Inventories**

| Chemical name             | T<br>S<br>C<br>A | TSCA<br>Inventory<br>Status | DSL/N<br>DSL | EINE<br>CS/EL<br>INCS | ENCS | IECS<br>C | KECL | PICC<br>S | AICS |
|---------------------------|------------------|-----------------------------|--------------|-----------------------|------|-----------|------|-----------|------|
| 1,1,1,2-Tetrafluoroethane | X                | ACTIVE                      | X            | X                     | X    | X         | X    | X         | X    |

**Legend:***TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS - Japan Existing and New Chemical Substances**IECS - China Inventory of Existing Chemical Substances**KECL - Korean Existing Chemicals Inventory**PICCS - Philippines Inventory of Chemicals and Chemical Substances**AICS - Australian Inventory of Chemical Substances***US Federal Regulations****CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

## 16. OTHER INFORMATION

### NFPA

Health hazards -

Flammability -

Instability -

Special hazards -

### HMIS

Health hazards -

Flammability -

Physical hazards -

Personal  
protection -

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### 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.

**End of Safety Data Sheet**