



Safety Data Sheet

Issue Date: 05-Aug-2026

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Version 1

1. IDENTIFICATION

Product identifier

Product Name Arctic Edge R507

Other means of identification

SDS # LENZ-006

UN/ID No UN3163

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 Very faint Sweet

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-%
Pentafluoroethane	354-33-6	50
1,1,1-Trifluoroethane	420-46-2	50

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**

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Rapid evaporation of the liquid may cause frostbite. In case of contact with liquid, thaw frosted parts with water, then remove clothing carefully.
Inhalation	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 (CO₂). Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable

Not determined.

Extinguishing Media**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. Halogenated compounds. Carbonyl halides. Gaseous hydrogen chloride (HCl).

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 Handling Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. 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

Physical state	Gas	Odor	Very faint Sweet
Appearance	Colorless liquified gas		
Color	Colorless	Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	neutral	
Melting point / freezing point	No information available	

Initial boiling point / boiling range	-46.7 °C / -52.06 °F
Flash point	No information available
Evaporation rate	>1
Flammability (Solid, Gas)	No information available
Flammability Limit in Air	
Upper flammability or explosive limits	No information available
Lower flammability or explosive limits	No information available
Vapor Pressure	10,611 hPa at 21.1 °C(70.0 °F) 25,289 hPa at 54.4 °C(129.9 °F)
Relative vapor density	3.43 Note: (Air = 1.0)
Relative Density	1.07 g/cm ³ at 21.1 °C
Water Solubility	1.5 g/l
Solubility in other solvents	No information available
Partition Coefficient	log Pow: 1.48 Test substance: Ethane, pentafluoro- (HFC-125)
Autoignition temperature	No information available > 750 °C
Decomposition temperature	> 250°C
Kinematic viscosity	No information available
Dynamic viscosity	No information available
Particle characteristics	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available

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
Pentafluoroethane 354-33-6	-	-	= 2910 g/m ³ (Rat) 4 h
1,1,1-Trifluoroethane 420-46-2	-	-	> 540000 ppm (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

The following ATE values have been calculated for the mixture

Unknown acute 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 811-97-2		LC50: ≈450mg/L (96h, Oncorhynchus mykiss)	

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Chemical name	Partition coefficient
Pentafluoroethane 354-33-6	1.48

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 UN3163
Proper Shipping Name Liquefied gas, n.o.s. (Pentafluoroethane, 1,1,1-Trifluoroethane)
Transport hazard class(es) 2.2

IATA

UN number or ID number UN3163
Proper Shipping Name Liquefied gas, n.o.s. (Pentafluoroethane, 1,1,1-Trifluoroethane)

Transport hazard
class(es) 2.2

IMDG

UN number or ID number UN3163
 Proper Shipping Name Liquefied gas, n.o.s. (Pentafluoroethane, 1,1,1-Trifluoroethane)
 Transport hazard class(es) 2.2
 EmS-No F-C, S-V

15. REGULATORY INFORMATION

International Inventories

Chemical name	T S C A	TSCA Inventory Status	DSL/N DSL	EINE CS/EL INCS	ENCS	IECS C	KECL	PICC S	AICS
Pentafluoroethane	X	ACTIVE	X	X	X	X	X	X	X
1,1,1-Trifluoroethane	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

IECSC - 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