

# SAFETY DATA SHEET

Revision date 04-Feb-2026

Revision Number 2

## 1. Identification

### Product identifier

**Product Name** LeakFinder R-134a with Dye and Sealant

### Other means of identification

**Product Code(s)** LF134

**UN number or ID number** UN3159

**Synonyms** LF134, LF134H, LF134H-1\*\*\*

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

**Recommended use** Leak Detection Seal refrigerant leaks in air conditioning and refrigeration systems  
Refrigerant

**Restrictions on use** No information available

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

#### Manufacturer

Spectronics Corporation  
265 Spagnoli Road  
Melville, NY 11747  
USA

**E-mail address** sds@spectroline.com

### Emergency telephone number

**Emergency Telephone** US & Canada: 800-424-9300 (24 HOURS CHEMTREC)  
Outside US & Canada: +1 703-741-5970 (24 HOURS CHEMTREC)

### Classification of the substance or mixture

Gases under pressure***	Liquefied gas***
Simple asphyxiants***	Yes***

### Hazards not otherwise classified (HNOC)

Contact with product may cause frostbite.

### Label elements



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.\*\*\*

**Hazards classified under paragraph (d)(1)(ii) of 1910.1200**

No information available.

**Other information**

No information available.

**Substance**

Not applicable.\*\*\*

**Mixture** \*\*\*

The product contains no substances which at their given concentration, are considered to be hazardous to health.\*\*\*

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**Description of first aid measures**

<b>Inhalation</b>	Remove to fresh air.***
<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>	In case of contact with liquefied gas, thaw frosted parts with lukewarm water.***
<b>Ingestion</b>	Rinse mouth.

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

**Symptoms** No information available.

**Effects of Exposure** No information available.

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

**Note to physicians** Treat symptomatically.

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.\*\*\*

**Specific hazards arising from the chemical** Cylinders may rupture under extreme heat. Damaged cylinders should be handled only by specialists. Containers may explode when heated. Ruptured cylinders may rocket.\*\*\*

**Explosion data****Sensitivity to mechanical impact** Yes.\*\*\***Sensitivity to static discharge** None.**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.**Personal precautions, protective equipment and emergency procedures****Personal precautions** Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.\*\*\***Methods and material for containment and cleaning up****Methods for containment** Prevent further leakage or spillage if safe to do so.**Methods for cleaning up** Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.\*\*\***Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.**Precautions for safe handling****Advice on safe handling** Contents under pressure. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.\*\*\***General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.**Conditions for safe storage, including any incompatibilities****Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight.\*\*\***Control Parameters****Exposure Limits** This product, as supplied, contains materials that do not have reportable occupational exposure limits or are not subject to the reporting requirements of the local jurisdiction.**Biological occupational exposure limits** This product, as supplied, contains materials that do not have reportable biological exposure limits or are not subject to the reporting requirements of the local jurisdiction.**Appropriate engineering controls****Engineering controls** Showers  
Eyewash stations  
Ventilation systems.**Individual protection measures, such as personal protective equipment****Eye/face protection** Wear safety glasses with side shields (or goggles).\*\*\***Hand protection** Wear cold insulating gloves.\*\*\*

**Skin and body protection** Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### Information on basic physical and chemical properties

**Appearance** Liquefied gas  
**Physical state** Liquid  
**Color** light green  
**Odor (includes odor threshold)** Slight

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	-108 °C*** /*** -162.4 °F***	None known
<b>Boiling point (or initial boiling point or boiling range)</b>	-26.2*** °C*** /*** -15.16*** °F***	None known
<b>Flammability</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	Does Not Flash	None known
<b>Autoignition temperature</b>	> 743 °C*** /*** 1369.4 °F***	None known
<b>Decomposition temperature</b>	No data available	None known
<b>SADT (°C)</b>	No data available	None known
<b>pH</b>	No data available	None known
<b>pH (as aqueous solution)</b>	No data available	None known
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known
<b>Solubility</b>	Insoluble in water	None known
<b>Water solubility</b>	Insoluble	None known
<b>Partition coefficient n-octanol/water (log value)</b>	No data available	None known
<b>Vapor pressure (includes evaporation rate)</b>	569 kPa	@ 20 °C
<b>Evaporation rate</b>	No data available	None known
<b>Density and/or relative density</b>	1.22	None known
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	
<b>Relative vapor density</b>	No data available	3.6 (air = 1)
<b>Particle characteristics</b>		No information available
<b>Particle Size</b>	No data available	
<b>Particle Size Distribution</b>	No data available	

#### Other information

**Sensitivity to mechanical impact** Yes\*\*\*

**Reactivity** No information available.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid** Excessive heat.\*\*\*

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products** None known based on information supplied.

**Information on likely routes of exposure**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

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

<b>Symptoms</b>	No information available.
<b>Acute toxicity</b>	No information available.

**Numerical measures of toxicity** \*\*\*

The following ATE values have been calculated for the mixture \*\*\*

ATEmix (oral)	5,035.20*** mg/kg***
ATEmix (dermal)	99,999.00*** mg/kg***
ATEmix (inhalation-gas)	99,999.00*** ppm***
ATEmix (inhalation-vapor)	99,999.00*** mg/L***
ATEmix (inhalation-dust/mist)	99,999.00*** mg/L***

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

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Interactive effects</b>	No information available.

**Ecotoxicity** Based on available data, the classification criteria are not met.\*\*\*

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

**Mobility in soil** No information available.

**Other adverse effects** No information available.

### **Disposal methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

### **DOT**

**UN number or ID number** UN3159  
**Proper shipping name** 1,1,1,2-Tetrafluoroethane  
**Transport hazard class(es)** 2.2  
**Special Provisions** T50  
**DOT Marine Pollutant** NP  
**Description** UN3159, 1,1,1,2-Tetrafluoroethane, 2.2

### **TDG**

**UN number or ID number** UN3159  
**UN proper shipping name** Refrigerant gas R 134a  
**Transport hazard class(es)** 2.2  
**Description** UN3159, Refrigerant gas R 134a, 2.2

### **MEX**

**UN number or ID number** UN3159  
**UN proper shipping name** 1,1,1,2-Tetrafluoroethane  
**Transport hazard class(es)** 2.2  
**Description** UN3159, 1,1,1,2-Tetrafluoroethane, 2.2

### **ICAO (air)**

**UN number or ID number** UN3159  
**UN proper shipping name** 1,1,1,2-Tetrafluoroethane  
**Transport hazard class(es)** 2.2  
**Description** UN3159, 1,1,1,2-Tetrafluoroethane, 2.2

### **IATA**

**UN number or ID number** UN3159  
**UN proper shipping name** 1,1,1,2-Tetrafluoroethane  
**Transport hazard class(es)** 2.2  
**Environmental hazards** No  
**ERG Code** 2L  
**Description** UN3159, 1,1,1,2-Tetrafluoroethane, 2.2

### **IMDG**

**UN number or ID number** UN3159  
**UN proper shipping name** 1,1,1,2-Tetrafluoroethane  
**Transport hazard class(es)** 2.2  
**Marine pollutant indicator** NP F-C S-V

Description UN3159, 1,1,1,2-Tetrafluoroethane, 2,2, (0°C c.c.)

## 15. Regulatory information

### International Inventories

<b>TSCA</b>	Complies.
<b>DSL/NDSL</b>	Complies.
<b>EINECS/ELINCS</b>	Complies.
<b>ENCS</b>	Complies.
<b>IECSC</b>	Complies.
<b>KECI</b>	Complies.
<b>PICCS</b>	Does not comply.
<b>AIIC</b>	Complies.
<b>NZIoC</b>	Complies.

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - 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

**AIIC** - Australian Inventory of Industrial Chemicals

**NZIoC** - New Zealand Inventory of Chemicals

### US Federal Regulations

#### **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.

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **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).

#### **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.

### 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

### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

**16. Other information**

<b>NFPA</b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Instability</b> 0	<b>Special hazards</b> -
<b>HMIS</b>	<b>Health hazards</b> 0	<b>Flammability</b> 1	<b>Physical hazards</b> 0	<b>Personal protection</b> X

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation

**Key literature references and sources for data used to compile the SDS**

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 U.S. Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications  
 International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program  
 International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set  
 United Nations World Health Organization (WHO)

**Revision date** 04-Feb-2026  
**Revision Note** No information available.

**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**