

SAFETY DATA SHEET

Revision date 30-Sep-2026

Revision Number 3

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 Servicing existing R-134a motor vehicle air-conditioning (MVAC) systems.***

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer

Spectronics Corporation
265 Spagnoli Road
MELVILLE, NY 11747
UNITED STATES

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)

2. Hazard(s) identification

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 - Prevention

Wear cold insulating gloves and either face shield or eye protection.***

Precautionary Statements - Response

Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice and attention.***

Precautionary Statements - Storage

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

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

No information available.

Other information

No information available.

3. Composition/information on ingredients**Substance**

Not applicable.***

Mixture ***

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

4. First-aid measures**Description of first aid measures****Inhalation**

Remove to fresh air.***

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.
Consult a physician.

Skin contact

In case of contact with liquefied gas, thaw frosted parts with lukewarm water.***

Ingestion

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.

5. Fire-fighting measures

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.

6. Accidental release measures

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.

7. Handling and storage

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.***

8. Exposure controls/personal protection

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.
<u>Appropriate engineering controls</u>	
Engineering controls	Showers Eyewash stations Ventilation systems.
<u>Individual protection measures, such as personal protective equipment</u>	
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.

9. Physical and chemical properties

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>
Melting point / freezing point	-108 °C*** /*** -162.4 °F***	None known
Boiling point (or initial boiling point or boiling range)	-26.2*** °C*** /*** -15.16*** °F***	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	Does Not Flash	None known
Autoignition temperature	> 743 °C*** /*** 1369.4 °F***	None known
Decomposition temperature	No data available	None known
SADT (°C)	No data available	None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Solubility	Insoluble in water	None known
Water solubility	Insoluble No data available	None known

Partition coefficient n-octanol/water (log value)	No data available	None known
Vapor pressure (includes evaporation rate)	569 kPa	@ 20 °C
Evaporation rate	No data available	None known
Density and/or relative density	1.22	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	3.6 (air = 1)
Particle characteristics		No information available
Particle Size	No data available	
Particle Size Distribution	No data available	

Other information

Sensitivity to mechanical impact Yes***

10. Stability and reactivity

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.

11. Toxicological informationInformation on likely routes of exposure

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

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
Acute toxicity	Based on available data, the classification criteria are not met.

Numerical measures of toxicity ***

The following ATE values have been calculated for the mixture ***
 ATE_{mix} (oral) 5,035.20*** mg/kg***

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

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT - single exposure	Based on available data, the classification criteria are not met.
STOT - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Other adverse effects	No information available.
Interactive effects	No information available.

12. Ecological information

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.

13. Disposal considerations

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.

14. Transport information

<u>DOT</u>	***
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***
Emergency Response Guide Number	126***
<u>TDG</u>	***
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***
<u>MEX</u>	***
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***
<u>ICAO (air)</u>	***
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***
<u>IATA</u>	***
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***
<u>IMDG</u>	***
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***
EmS-No.	*** F-C,*** S-V***
Description	UN3159, 1,1,1,2-Tetrafluoroethane, 2.2, (0°C c.c.)***

15. Regulatory information

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Complies.

Chemical name	CAS No.	Inventory Listing Status	Commercial Activity Designation
Oil Based Sealant CAS: ID: 130010 5 - <10 %	-	Present	Active
Naphthalimide Dye - A/C CAS: 190454-06-9 ID: 129117 0.06426 %	190454-06-9	-	Unknown *

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements.***

DSL/NDSL	Complies.
EINECS/ELINCS	Complies.
ENCS	Complies.
IECSC	Complies.
KECL	Complies.
PICCS	Does not comply.
AIIC	Complies.
NZIoC	Complies.
TCSI	Contact supplier for inventory compliance status.

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).

CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

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

NFPA	Health hazards 0	Flammability 1	Instability 0	Special hazards -
HMIS	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection 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
 U.S. EPA 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
 U.S. Hazardous Substance Data Bank (HSDB)
 International Uniform Chemical Information Database (IUCLID)
 Japan National Institute of Technology and Evaluation (NITE)
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 U.S. National Institute for Occupational Safety and Health (NIOSH)
 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 30-Sep-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