

Air Conditioning Products
Tools, Equipment & Refrigerant

Issue Date 01-Jan-2010

Revision Date 03-Jan=2019

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name O'ring Lube – Ester base

Other Means of Identification

SDS # FJC

UN/ID No UN3159
Product Code Part #2206

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Oil charge.

Details of the Supplier of the Safety Data Sheet

Supplier Address

FJC
101 Commercial Drive
 Mooresville, NC 28115

Emergency Telephone Number

Company Phone Number Phone: 704-664-3587
Fax: 704-664-5522
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Gases under pressure	Compressed gas
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Hazard Statements

Contains gas under pressure; may explode if heated



Physical State Liquid Vapor Gas

Odor Ethe

Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
1,1,1,2-Tetrafluoroethane	811-97-2	45-55

The specific chemical identity of this composition is being withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Treat affected area for frostbite if necessary by gently warming. If skin irritation occurs: Get medical advice/attention.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
Ingestion	Not an expected route of exposure.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	"Frostbite-like" effects may occur if the liquid or escaping vapors contact the eyes or skin. Inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, loss of coordination, drowsiness, unconsciousness or death. Suffocation if air is displaced by vapors.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically. Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, that may be used in situations of emergency life support should be used with special caution.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water. Carbon dioxide (CO₂). Foam. Dry powder.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Contains gas under pressure; may explode if heated. Not flammable at ambient temperatures and atmospheric pressure. Material will become combustible when mixed with air under pressure and exposed to ignition sources.

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** Use personal protective equipment as required. Spills may be slippery.
- Environmental Precautions** Prevent runoff from entering drains, sewers or streams.

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** Absorb with inert material, and then place in suitable container for chemical waste.

7. HANDLING AND STORAGE

Precautions for Safe Handling

- Advice on Safe Handling** Do not breathe vapors. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling. Use personal protection recommended in Section 8. Do not puncture or incinerate cans. Protect container from physical damage. Keep away from heat.

Conditions for Safe Storage, Including any Incompatibilities

- Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct sunlight. Do not store at temperatures above 120°F.
- Incompatible Materials** Strong oxidizing agents. Alkali. Alkaline earth metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Exposure Guidelines** No exposure limits noted for ingredient(s)

Appropriate Engineering Controls

- Engineering Controls** Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions.

Individual Protection Measures, such as Personal Protective Equipment

- Eye/Face Protection** Wear approved safety goggles.
- Skin and Body Protection** For prolonged or repeated skin contact use suitable protective gloves. Wear appropriate clothing to prevent repeated or prolonged skin contact.
- Respiratory Protection** No protection is ordinarily required under normal conditions of use and with adequate ventilation.
- 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** Liquid Vapor Gas
Appearance Not determined
- Odor** Ethereal

Color Amber Odor Threshold Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not applicable	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	-26.5 °C / -15.7 °F	
Flash Point	> 204 °C / > 399 °F	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not flammable	
Upper Flammability Limits	None	
Lower Flammability Limit	None (based on ASHRAE Standard 34 with match ignition)	
Vapor Pressure	85.8 psia	@ 21° C (70° F)
Vapor Density	Not determined	
Specific Gravity	Not determined	
Water Solubility	Soluble in water	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	>750 °C / 1382 °F	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

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

Do not mix with air above atmospheric pressure or oxygen. Avoid direct sunlight. Do not puncture or incinerate cans.

Incompatible Materials

Strong oxidizing agents. Alkali. Alkaline earth metals.

Hazardous Decomposition Products

Hydrofluoric acid. Carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact Avoid contact with eyes.
Skin Contact Avoid contact with skin.
Inhalation Avoid inhalation of vapors.
Ingestion Not an expected route of exposure

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
1,1,1,2-Tetrafluoroethane 811-97-2	-	-	= 1500 g/m ³ (Rat) 4 h

Information on Physical, Chemical and Toxicological Effects

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 This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Dispose of in accordance with federal, state and local regulations. Due to the highly concentrated color, avoid washing material into sewer systems without proper treatment and authorization by the treatment facility management.

Contaminated Packaging Dispose of in accordance with federal, state and local regulations. Unclean empty containers should be disposed of in the same manner as the contents.

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
Hazard Class 2.2

IATA

UN/ID No UN3159
Proper Shipping Name 1,1,1,2-tetrafluoroethane
Hazard Class 2.2

IMDG

UN/ID No UN3159
Proper Shipping Name 1,1,1,2-tetrafluoroethane
Hazard Class 2.2

15. REGULATORY INFORMATION

International Inventories

TSCA Listed
DSL Listed
EINECS Listed

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 and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Not determined

US State Regulations

U.S. State Right-to-Know Regulations

Not Determine

16. OTHER INFORMATION

NEPA

Health Hazards
2

Flammability
1

Instability
0

Special Hazards Not
determined **Personal**

HMIS

Health Hazards
1

Flammability
1

Physical Hazards
0

Protection Not
determined

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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**