

SAFETY DATA SHEET

Issue Date 01-Jan-2010 Revision Date 14-May-2015 Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Ester Oil Charge

Other Means of Identification

SDS# FJC

UN/ID No UN3159 Product Code Part #9147

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

Hazard Statements

Contains gas under pressure; may explode if heated



Physical State Liquid Vapor Gas Odor Ethereal

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 Delaved

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.

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.

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 UpAbsorb 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 ProtectionNo 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

AppearanceNot determinedOdorEtherealColorAmberOdor ThresholdNot 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 **Dvnamic 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	-	-	= 1500 g/m ³ (Rat) 4 h
811-97-2			

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 WastesDispose 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/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 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

NFPA	Health Hazards	Flammability	Instability	Special Hazards Not
	2	1	0	determined Personal
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Protection Not
	1	1	0	determined

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 14-May-2015

 Revision Note
 New format

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