

# MATERIAL SAFETY DATA SHEET

Trade Name: Johnsen's R-134a Leak Stop  
MSDS NO. 6536  
Revision Date: NOT AUTHORIZED  
Date Printed: 26-10-2012

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsen's R-134a Leak Stop  
Chemical Family: Refrigerant gas/lubricant  
Synonyms: None  
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300  
Supplier: Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
1,1,1,2-Tetrafluoroethane (HFC-134a) 811-97-2	48-53	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	<1	Not Listed	Not Listed	Not Listed
Polyalkylene Glycols Trade Secret	45-50	Not Listed	Not Listed	Not Listed
Additives Trade Secret	<3	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
1,1,1,2-Tetrafluoroethane (HFC-134a) 811-97-2	48-53	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	<1	Not Listed	Not Listed	Not Listed
Polyalkylene Glycols Trade Secret	45-50	Not Listed	Not Listed	Not Listed
Additives Trade Secret	<3	Not Listed	Not Listed	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
1,1,1,2-Tetrafluoroethane (HFC-134a) 811-97-2	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	Not Listed	Not Listed	Not Listed
Polyalkylene Glycols Trade Secret	Not Listed	Not Listed	Not Listed
Additives Trade Secret	Not Listed	Not Listed	Not Listed

## 3. HAZARDS IDENTIFICATION

**Emergency Overview:** Content under pressure. "Frostbite-like" effects may occur if the liquid or escaping vapors contact the eyes or skin. Gross inhalation overexposure may cause: Central nervous system depression with dizziness, confusion, incoordination, drowsiness or unconsciousness or death.

**HMIS Classification:** Health: 1 Flammability: 1 Reactivity: 0  
**NFPA Rating:** Health: 1 Flammability: 1 Reactivity: 0

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### 4. FIRST AID MEASURES

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

**Ingestion:** Get medical attention! If vomiting occurs, keep head lower than hips to prevent aspiration.

**Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and shoes, and launder before reuse. Use approved skin lotions or creams to replace lost skin oils. Treat for frostbite if necessary by gently warming affected area.

### 5. FIRE FIGHTING MEASURES

#### Flammable Properties

**Flash Point °F(°C):** >300 F (>149 F)  
**Flash Point Method:** COC  
**Flammable Limits in Air - Lower (%):** NT  
**Flammable Limits in Air - Upper (%):** Not Determined  
**Autoignition Temperature °F(°C):** Not Determined  
**Extinguishing Media:** Water fog, carbon dioxide, foam, dry chemical. Use water spray to keep containers cool that are exposed to heat or flames.

#### Protection Of Fire-Fighters:

**Special Fire-Fighting Procedures:** Warning!! Contents under pressure. Container may rupture under fire conditions. Decomposition may occur. Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

**Hazardous Combustion Products:** Carbon Dioxide. Carbon Monoxide.

**Aerosol Comments:** NFPA Level 1 Aerosol

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear appropriate protective clothing and equipment to prevent skin and eye contact.

**Spill Procedures:** Wear protective equipment specified. Contain any liquid from leaking containers. Ventilate spill area. Soak up material with absorbent and place in chemical waste container.

**Action to be taken if material is released or spilled:** Increase area ventilation. Do not puncture or incinerate container. Contents under pressure.

**Environmental Precautions:** Keep away from drains.

### 7. HANDLING AND STORAGE

**Handling and Storage:** CAUTION: COMPRESSED GAS. Do not puncture, incinerate or store above 120 F. Do not store in passenger compartment of automobile. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Should not be mixed with air for leak testing or used for any other purpose above atmospheric pressure.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Showers. Eyewash stations.

**Eyes:** Wear safety glasses or goggles to protect against exposure.

**Skin Protection:** Avoid skin contact. Wear protective clothing and gloves.

**Respiratory Protection:** Use in a well ventilated area.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Red Liquid  
**Odor:** MILD ETHER LIKE

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

pH Value: Not Determined  
 Vapor Pressure: Not Determined  
 Vapor Density (Air=1): Not Determined  
 Boiling Point (°F): -15.5 F (-26.4 C) (Lowest Component)  
 Melting/Freezing Point: Not determined.  
 Solubility in Water: NEGLIGIBLE  
 Bulk Density at 20°C: Not Determined  
 Molecular Weight: Mixture  
 Specific Gravity (H2O=1): Not determined.  
 Viscosity: Not determined.  
 Evaporation Rate: >1  
 VOC Content(%): Not determined.  
 Decomposition Temperature: Not Known

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Do not expose to heat or store at temperatures above 120 F.  
**Materials to Avoid:** Avoid contact with acidic, basic or oxidizing agents. Avoid contact with alkali or alkaline earth metals.  
**Hazardous Decomposition Products:** Carbon monoxide. Carbon dioxide. This material can be decomposed by high temperatures forming hydrofluoric acid and possibly carbonyl fluoride.  
**Hazardous Polymerization:** WILL NOT OCCUR

## 11. TOXICOLOGICAL INFORMATION

**Toxicological Data:**

Component	Route	Species	Dose
1,1,1,2-Tetrafluoroethane (HFC-134a) 811-97-2	Inhalation	Rats	LC50 1500 gm/m <sup>3</sup> /4H
Butyl Benzyl Phthalate 85-68-7	Oral	Rats	LD50 2330 mg/kg
Polyalkylene Glycols Trade Secret	Inhalation	Rats	Not known.
Additives Trade Secret	Inhalation	Rats	Not known.

**Carcinogenicity:**

Component	IARC	NTP	OSHA
1,1,1,2-Tetrafluoroethane (HFC-134a) 811-97-2	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	Group 3 (not classifiable)	Not Listed	Not Listed
Polyalkylene Glycols Trade Secret	Not Listed	Not Listed	Not Listed
Additives Trade Secret	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

**Remarks:** Ecological testing has not been conducted on this product.

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### 13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.  
 Waste Management: Not determined.  
 Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

### 14. TRANSPORTATION INFORMATION

**U.S. DOT:**

Proper Shipping Name: Limited Quantity  
 Hazard Class: Not Applicable  
 UN/NA Number: Not Applicable  
 DOT Packing Group: Not Applicable

**IMDG:**

Proper Shipping Name: 1,1,1,2-Tetrafluoroethane (HFC-134a). (Limited Quantity)  
 Hazard Class: 2.2  
 Hazard Subclass: Not Applicable  
 UN No.: UN 3159  
 Packing Group: Not Applicable  
 Marine Pollutant: No

### 15. REGULATORY INFORMATION

**US Federal Regulations:**

Component	SARA 313	SARA 302	TPQ	RQ
1,1,1,2-Tetrafluoroethane (HFC-134a) 811-97-2	Not Listed	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	Not Listed	Not Listed	Not Listed	Not Listed
Polyalkylene Glycols Trade Secret	Not Listed	Not Listed	Not Listed	Not Listed
Additives Trade Secret	Not Listed	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Categories: Immediate Delayed

**State Regulations:**

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
1,1,1,2-Tetrafluoroethane (HFC-134a) 811-97-2	Not Listed	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	Not Listed	Listed: December 2, 2005 Developmental toxin.	Not Listed	Not Listed
Polyalkylene Glycols Trade Secret	Not Listed	Not Listed	Not Listed	Not Listed
Additives Trade Secret	Not Listed	Not Listed	Not Listed	Not Listed

Component	New Jersey Right-to-Know List:
Butyl Benzyl Phthalate 85-68-7	Substance no. 2896 Substance no. 3005

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**U.S. TSCA:** One or more components of this product is not listed on the TSCA Inventory.  
**Canadian Inventory:** One or more components of this product is not listed on the Canadian DSL or NDSL Inventory.

### **Consumer Product Safety Improvement Act of 2008 General Conformity Certification**

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

## 16. OTHER INFORMATION

**General Notes:**  
**Disclaimer:** Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.