

MATERIAL SAFETY DATA SHEET

Trade Name: Johnsen's Auto Air Conditioner R-134a Maxi Charge
MSDS NO. 6537
Revision Date: 04/11/2006
Date Printed: 08/06/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Johnsen's Auto Air Conditioner R-134a Maxi Charge
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 811-97-2	60 - 90	Not Listed	Not Listed	Not Listed
Tricresyl phosphate 1330-78-5	<1	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	<1	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
1,1,1,2-Tetrafluoroethane 811-97-2	60 - 90	Not Listed	Not Listed	Not Listed
Tricresyl phosphate 1330-78-5	<1	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	<1	Not Listed	Not Listed	Not Listed

Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
1,1,1,2-Tetrafluoroethane 811-97-2	Not Listed	Not Listed	Not Listed
Tricresyl phosphate 1330-78-5	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	Not Listed	Not Listed	Not Listed

Other: Contains no other ingredients in concentrations >.1% that are now known to be hazardous as defined by OSHA.

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 Physical Hazard: 2
NFPA Rating: Health: 2 Flammability: 1 Reactivity: 1

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: DO NOT INDUCE VOMITING. Give nothing by mouth. 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.

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4. FIRST AID MEASURES

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.
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: Colorless gas with clear to yellow liquid.
Odor: MILD ETHER LIKE
pH Value: Not Determined
Vapor Pressure: Not Determined
Vapor Density (Air=1): Not Determined
Boiling Point (°F): -15.7 F. (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

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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 811-97-2	Inhalation	Rats	LC50 1500 gm/m ³ /4H
Tricresyl phosphate 1330-78-5	Oral	Rats	LD500 3 gm/kg
Butyl Benzyl Phthalate 85-68-7	Oral	Rats	LD50 2330 mg/kg

Carcinogenicity:

Component	IARC	NTP	OSHA
1,1,1,2-Tetrafluoroethane 811-97-2	Not Listed	Not Listed	Not Listed
Tricresyl phosphate 1330-78-5	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	Group 3 (not classifiable)	Not Listed	Not Listed

12. ECOLOGICAL INFORMATION

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

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: 1,1,1,2-Tetrafluoroethane
Hazard Class: 2.2
UN/NA Number: UN 3159
DOT Packing Group: NA

IMDG:

Proper Shipping Name: 1,1,1,2-Tetrafluoroethane
Hazard Class: 2.2
Hazard Subclass: Not determined.
UN No.: UN 3159
Packing Group: NA
Marine Pollutant: No

15. REGULATORY INFORMATION

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15. REGULATORY INFORMATION

US Federal Regulations:

Component	SARA 313	SARA 302	TPQ	RQ
1,1,1,2-Tetrafluoroethane 811-97-2	Not Listed	Not Listed	Not Listed	Not Listed
Tricresyl phosphate 1330-78-5	Not Listed	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	Not Listed	Not Listed	Not Listed	Not Listed

SARA 311/312 Hazard Categories: Not Determined.

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 811-97-2	Not Listed	Not Listed	Not Listed	Not Listed
Tricresyl phosphate 1330-78-5	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

Component	New Jersey Right-to-Know List:
Tricresyl phosphate 1330-78-5	Substance no. 3130
Butyl Benzyl Phthalate 85-68-7	Substance no. 2896 Substance no. 3005

U.S. TSCA: The components of this product are listed on the TSCA Inventory.
Canadian Inventory: The components of this product are listed on the Canadian DSL or NDSL Inventory.

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.