

# MATERIAL SAFETY DATA SHEET

Trade Name: Coolpoint PAG 100 Oil Charge with 134a  
MSDS NO. SUN-POC  
Revision Date: 10/19/2005  
Date Printed 10/19/2005

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Coolpoint PAG 100 Oil Charge with 134a  
Chemical Family: Refrigerant gas/lubricant  
Synonyms: None  
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300

Supplier: TCC Company, P.O. Box 139, Cleburne, Texas 76033

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient/CAS No.	wt. %	OSHA PEL TWA	OSHA PEL Ceiling Limits	ACGIH TLV TWA	ACGIH TLV STEL
1,1,1,2-Tetrafluoroethane 811-97-2	45-55	Not Known (Recommended <1000 ppm TWA)	Not Known	Not Known	Not Known
Polyoxoalkylene glycol ether NA	45-55	None Established	None Established	None Established	None Established
Tricresyl phosphate 1330-78-5	.5-1	Not Known	Not Known	Not Known	Not Known

Contains no other ingredients in concentrations >.1% that are now known to be hazardous as defined by OSHA. Tricresyl Phosphate contains <1% ortho isomer and is not considered a Marine Pollutant by DOT.

## 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. This material is irritating to skin, eyes and respiratory tract.

## 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. Wash out mouth with water and give 1 or 2 glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. Never give anything by mouth to an unconscious person. Physician: The liquid portion of this material is considered to be only slightly toxic. The potential complications associated with removing material from the GI track, the amount digested, and the time since ingestion should be taken into account when developing a treatment plan. This material also contains 134a, which is a gas at ambient temperatures.

**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.  
**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.  
Increase area ventilation. Do not puncture or incinerate container. Contents under pressure.

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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

## 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:**

Ingredient/CAS No.	wt. %	Route	Species	Dose
1,1,1,2-Tetrafluoroethane 811-97-2	45-55	Inhalation	Rats	LC50 1500 gm/m3/4H
Polyoxoalkylene glycol ether NA	45-55	NA	NA	Not known.
Tricresyl phosphate 1330-78-5	.5-1	Oral	Rats	LD500 3 gm/kg

**Carcinogenicity:**

Ingredient/CAS No.	wt. %	IARC	NTP	OSHA
1,1,1,2-Tetrafluoroethane 811-97-2	45-55	Not Listed	Not Listed	Not Listed
Polyoxoalkylene glycol ether NA	45-55	Not Listed	Not Listed	Not Listed
Tricresyl phosphate 1330-78-5	.5-1	Not Listed	Not Listed	Not Listed

## 12. ECOLOGICAL INFORMATION

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Ecological testing has not been conducted on this product.

## 13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.

Waste Management: Not determined.

Disposal should be made in accordance with federal, state and local regulations.

## 14. TRANSPORTATION INFORMATION

### U.S. DOT:

Proper Shipping Name: ORMD Consumer Commodity  
Hazard Class: ORMD  
UN/NA Number: NA  
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

### US Federal Regulations:

Ingredient/CAS No.	wt. %	SARA 313	SARA 302	RQ	TPQ
1,1,1,2-Tetrafluoroethane 811-97-2	45-55	Not Listed	Not Listed	NA	NA
Polyoxoalkylene glycol ether NA	45-55	Not Listed	Not Listed	NA	NA
Tricresyl phosphate 1330-78-5	.5-1	Not Listed	Not Listed	NA	NA

SARA 311/312 Hazard Categories: Not Determined.

### State Regulations:

Ingredient/CAS No.	wt. %	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	45-55	Not Listed	Not Listed	Not Listed	Not Listed
Polyoxoalkylene glycol ether NA	45-55	Not Listed	Not Listed	Not Listed	Not Listed
Tricresyl phosphate 1330-78-5	.5-1	Not Listed	Not Listed	Not Listed	Not Listed

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

## 16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

### Disclaimer:

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

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