



# MATERIAL SAFETY DATA SHEET

**CHROMATE INDUSTRIAL CORPORATION®**  
5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

**FOR CHEMICAL  
EMERGENCY**

Call ChemTrec day/night:  
**1-800-424-9300**

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** STOP LEAK

**DATE PREPARED:** May 13, 2008

**PART NUMBER:** 74381

**PRODUCT TYPE:** Refrigerant gas/lubricant

**CHROMATE INDUSTRIAL CORPORATION**

**CHEMICAL FAMILY:** Refrigerant gas/lubricant

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## SECTION 2 – COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENTS	WT. %	OSHA PEL TWA	OSHA PEL CEILING LIMITS	ACGIH TLV TWA	ACGIH TLV STEL
1,1,1,2 Tetrafluoroethane 811-97-2	60-90	Not Known (Recc. <1000ppm TWA)	Not Known	Not Known	Not Known
Butyl Benzyl Phthalate	<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.					

## SECTION 3 – HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW:

Content under pressure, "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, incoordination drowsiness, unconsciousness or death.

## SECTION 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 re-use. Use approved skin lotions or creams to replace lost skin oils. Treat for frostbite if necessary by gently warming affected area.

## SECTION 5 – FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

**Flash point °F/°C:** >300°F

**Flash Point Method:** COC

**Flammable Limits in Air- Lower (%):** Not Tested

**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

N/A — NOT APPLICABLE  
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

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

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

**SECTION 7 – 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.

**SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION**

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

**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.

**SECTION 9 – PHYSICAL/CHEMICAL CHARACTERISTICS**

**Appearance:** Colorless gas with clear to yellow liquid

**Odor:** MILD ETHER LIKE

**Vapor Pressure:** N/D

**Boiling Point (° F):** -15.7°F (Lowest Component)

**Solubility in Water:** NEGLIGIBLE

**Molecular Weight:** Mixture

**Viscosity:** N/D

**VOC Content (%):** N/D

**pH Value:** N/D

**Vapor Density (Air=1):** N/D

**Melting/Freezing Point:** N/D

**Bulk Density at 20°C:** N/D

**Evaporation Rate:** >1

**Specific Gravity (H2O=1):** N/D

**Decomposition Temperature:** N/D

**SECTION 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.

**SECTION 11 – TOXICOLOGICAL INFORMATION****TOXICOLOGICAL DATA:**

Ingredients/CAS No.	wt%	Route	Species	Dose
1,1,1,2 Tetrafluoroethane 811-97-2	60-90	Inhalation	Rats	LC50 1500 gm/m3/4H
Butyl Benzyl Phthalate 85-68-7	<1	Oral	Rats	LC50 12330 gm/kg

**CARCINOGENICITY:**

Ingredients/CAS No.	wt%	IARC	NTP	OSHA
1,1,1,2 Tetrafluoroethane 811-97-2	60-90	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	<1	Group 3 (Not classifiable)	Not Listed	Not Listed

N/A — NOT APPLICABLE  
N/L — NOT LISTED

N/D — NOT DETERMINED

N/E — NONE ESTABLISHED

N/R — NOT REGULATED

**SECTION 12 – ECOLOGICAL INFORMATION**

Ecological testing has not been conducted on this product.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste Classification:** N/D

**Waste Management:** N/D

**SECTION 14 – TRANSPORT INFORMATION**

**U.S. DOT:**

**Proper Shipping Name:** Consumer Commodity  
**Hazard Class:** ORMD  
**UN/NA Number:** N/A  
**DOT Packing Group:** N/A

**IMDG:**

**Proper Shipping Name:** 1,1,1,2-Tetrafluoroethane  
**Hazard Class:** 2.2 Limited quantity  
**Hazard Sub-class:** N/D  
**UN No.:** UN 3159  
**Packing Group:** N/A  
**Marine Pollutant:** No

**SECTION 15 – REGULATORY INFORMATION**

**US FEDERATION REGULATIONS:**

Ingredients/CAS No.	wt%	SARA 313	SARA 302	RQ	TPQ
1,1,1,2 Tetrafluoroethane 811-97-2	60-90	Not Listed	Not Listed	N/A	N/A
Butyl Benzyl Phthalate 85-68-7	<1	Not Listed	Not Listed	N/A	N/A

**SARA 311/312 HAZARD CATEGORIES:** N/D

**STATE REGULATIONS:**

Ingredients/CAS No.	wt%	California Prop 65 Cancer List	California Prop 65 Developmental Toxicity	California Prop 65 Reproductive Female	California Prop 65 Reproductive Female
1,1,1,2 Tetrafluoroethane 811-97-2	60-90	Not Listed	Not Listed	Not Listed	Not Listed
Butyl Benzyl Phthalate 85-68-7	<1	Not Listed	Not Listed	Not Listed	Not Listed

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

**SECTION 16 – OTHER INFORMATION**

**GENERAL NOTES:** Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system.

**DISCLAIMER:**

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