

# MATERIAL SAFETY DATA SHEET

## Enviro-Safe™ Stop Leak Concentrate & VS

### SECTION 1 – IDENTIFICATION

**Company:** Enviro-Safe Refrigerants, Inc.  
400 Margaret  
Pekin IL 61554  
309-346-1110

Product Name: Stop Leak Concentrate & VS  
Proper Shipping Name: Consumer Commodity, ORM-D

**CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE NUMBER**  
**1-800-424-9300**

### SECTION 2 – PHYSICAL DESCRIPTION AND/OR PROPERTIES

Appearance/Odor:	Clear, Colorless; odor added	Physical State:	Gas
Odor Threshold:	None available	pH:	N/A
Coeff. Water/Oil Dist.:	<1		

### SECTION 3 – FIRE OR EXPLOSION HAZARD

Auto Ignition Temperature: n/a  
Flashpoint: Not Available

Lower Flammable Limit (LEL):

Upper Flammable Limit (UEL):

**Extinguish Media:** Water spray, dry powder, or carbon dioxide can be directed at flame area to reduce fire intensity.

**Hazardous Combustion Products:** Normal combustion forms carbon monoxide.

**Sensitivity to Static Discharge:** Vapor may ignite if exposed to static discharge.

**Explosion Data:** Mixture is not sensitive.

**Fire and Explosion Hazard:** Flammable vapor may form if allowed to mix with air. Accumulation of gas is an ignition hazard. Vapors are heavier than air and may travel to an ignition source.

### SECTION 4 – INGREDIENTS

<u>Hazardous Ingredients</u>	<u>%</u>	<u>Cas Number</u>	<u>LD50</u>	<u>P.E.L.</u>	<u>ACGIH TLV UNITS</u>
Methylene Chloride	0-60	75-09-2	n.ap.		
N-Methylpyrrolidone	1-2	872-50-4	n.ap.		
Polyolester	1-2	Proprietary			

### SECTION 5 – REACTIVITY DATA

**Chemical Stability:** This material is chemically stable.

**Conditions To Avoid:** Avoid sparks, open flame or any source of ignition.

**Incompatible Materials:** Avoid contact with strong oxidizing agents such as chlorine, permanganates and dichromate's.

**Decomposition Products:** This product may produce carbon monoxide with a deficiency of oxygen.

**Hazardous Polymerization:** will not occur.

**Polymerization To Avoid:** Keep separate from oxidizing agents.

## **SECTION 6 – HEALTH HAZARD**

**Inhaled/Asphyxiant:** This product may cause irritation of the respiratory tract. May also cause headaches or dizziness at moderate exposures. Heavy exposure may cause anemia and irregular heart rhythm, respiratory arrest and death at elevated exposures.

**Ingestion:** Not likely to occur.

**Eye Contact:** Irritating if the liquid gets into eyes. Extremely high vapor concentration may also be irritating.

**Skin Contact:** Prolonged contact may irritate the skin and cause dermatitis.

**Chronic:** Prolonged exposure to this product may cause central nervous system disorder and or damage.

## **SECTION 7 - FIRST AID**

**Inhaled:** In emergency situations, use proper respiratory protection and immediately remove the victim to fresh air. Administer artificial respiration if breathing has stopped. Seek medical attention promptly in serious cases of over exposure.

**Eyes:** Flush eyes with tepid water for 15 minutes. Seek immediate medical advice immediately.

**Skin:** Avoid skin contact with the liquid. Remove contaminated clothing and wash the exposed area with soap and water.

**Ingestion:** Unlikely to be a problem, this should not occur.

## **SECTION 8 - SAFE HANDLING**

**Spills:** Shut off ignition source. Evacuate all non-essential personnel from the area. If possible, ventilate the area. Use water spray to disperse vapors. If the incident is significant seek assistance from local fire, police and other relevant authorities.

**Waste Disposal Method:** Dispose of product in accordance with local, county state, and federal regulations.

**Storage, Handling, Shipping:** Store in a cool, well-ventilated area. Store away from strong oxidizing agents, chlorine dioxide, excessive heat and/or static discharge. Cylinders must be stored and transported in an upright position.

### **Other Precautions:**

**Engineering Controls:** Use only in a well ventilated area! Ensure there is good ventilation. If additional ventilation is needed use auxiliary ventilation equipment ensuring that all systems are well grounded and spark proof.

**Eyes:** Wear safety chemical safety glasses with side shields and/or goggles.

**Gloves:** Use chemical resistant gloves when handling this product.

**Other protective clothing:** Long sleeves, pants and close-toed shoes.

**Respiratory Protection:** If ventilation of the area is not adequate use a NIOSH approved respirator to prevent overexposure by inhalation.

## **SECTION 10 – HEALTH EFFECTS**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### **Toxicology Test Data:**

- Rat, 3 month oral toxicity, dietary - @ 800 – 5000 ppm in diet
  - Body & organ weights, urine affected
- Dog, 90 day oral toxicity - @ 25 – 250 mg/kg/day
  - No compound related adverse effects
- Rat, Oral 2-Gen reproduction study – NOAEL: 160 mg/kg/day
  - Reduced fertility & pup survival @ 500
- Rat, Inhalation developmental/Repro test – 10, 50, 116 ppm
  - No reproduction effects; smaller pups @ 116 ppm
- Screening test for oral toxicity –
  - Moderate to low toxicity
- Screening test for inhalation toxicity –
  - Saturated vapor not lethal to 5 species tested
- Rat, 28 day oral study – 250 – 2000 ul/kg
  - Testicular effects in highest dose group
- Rat, 6 week inhalation study (vapor) – Sat @ 25 c
  - Intense yellow urine, nasal discharge

Rat, 2 week (10 dose) inhalation study – 6 hr/day @ 1 mg/l  
 No significant difference from control  
 Rat, 2 week (10 dose) inhalation study – 6 hr/day @ 1 mg/l  
 No deaths occurred  
 Rat, 2 week (10 dose) inhalation study – 6 hr/day @ 1 mg/l  
 No deaths occurred  
 Rat, 2 week (10 dose) inhalation study – 6 hr/day @ 1 mg/l  
 No deaths occurred  
 Rat, 2 week (10 dose) inhalation study – 6 hr/day @ 1 mg/l  
 80% deaths with Coarse particle aerosol

**SECTION 11 – REGULATORY INFORMATION**

**TSCA Inventory Status**

Listed on Inventory: Yes

**SARA – 313 Listed Chemicals:** CAS: 872-50-4 NAME: N-Methylpyrrolidone  
 CAS: 75-09-2 NAME: Methylene Chloride

**RCRA Haz.: Waste No:** CERCLA: NO **Reportable Qty: (If Yes)**  
 NMP is subject to the reporting requirements of SARA Title III, Section 313 and 40CFR372.

<b>State Regulatory Information:</b>	<b>(By Component)</b>	<b>NJ/PA/MA RTK</b>
CAS: 872-50-4		NO
NAME: M-Methylpyrrolidone		
CAS: 75-09-02		NO
NAME: Methylene Chloride		

**Hazard Ratings:**

	<b>Health:</b>	<b>Fire:</b>	<b>Reactivity:</b>	<b>Special:</b>
HMIS	2	2	0	NA
NFPA	2	2	0	NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard. If less than 119 gallons this product is not regulated. If more than 119 gallons – combustible liquid, NOS NA1993, PGIII.

**SECTION 12 -PREPARATION**

Enviro-Safe Refrigerants, Inc., 400 Margaret, Pekin, IL 61554

Telephone: 309-346-1110

December 1, 2004

All information provided for this MSDS sheet by Enviro-Safe Refrigerants, Inc. is offered in good faith and is believed to be accurate to the best knowledge of the preparation analyst. The information contained in this document is based on documentation provided by the supplier and other documentation/information available at the date of preparation. Enviro-Safe does not guarantee the accuracy of this document and this information is offered without warranty, guarantee or liability on the part of the preparation analyst in good faith.