

# IceCOLD® Technology

## MATERIAL SAFETY DATA SHEET

REPARATION DATE: 09/05 /03  
REVISION DATE: 3/25/09 REV. 4

### SECTION 1 - PRODUCT & COMPANY INFORMATION

**PRODUCT NAME:** IceCOLD® Technology  
**PRODUCT NO.:** IceCOLD22/134/410  
**DESCRIPTION:** Synthetic Compounds to remove oil-fouling, lower refrigerant evaporating temperature, and increase compressor oil lubricity  
**USE:** refrigeration and air conditioning compressors  
**APPEARANCE:** nearly clear transparent nearly odorless

**Manufacturer:** US Refrigeration Technologies, LLC.  
6601 Wickliff Trail  
Plano, Texas 75023-3234 USA  
**INFORMATION TELEPHONE:** 1-800-593-7790

### SECTION 2 - PRODUCT COMPOSITION INFORMATION

\* TRADE SECRET - PROPRIETARY FORMULA. Specific chemical identities are withheld as a trade secret under the provisions of OSHA hazard communication standard 29 CFR 1910.1200. A blend of synthetic lubricity compounds, anti surface tension compounds and a refrigerant catalyst.

### SECTION 3 - HAZARDS IDENTIFICATION

**EXPOSURE LIMITS:** none listed  
**POTENTIAL HEALTH EFFECTS:** May be harmful by ingestion, or skin absorption. May cause eye and/or skin irritation. Repeated exposure may cause skin dryness or cracking. Exposure can cause nausea, headache, and vomiting.  
**CANCER INFORMATION (IARC, NTP, ACGIH):** Not listed as a carcinogen.  
**PRIMARY ROUTE(S) OF ENTRY:** skin absorption, eye contact, prolonged inhalation..  
**TOXICITY DATA:**  
Oral-rat LD<sub>50</sub>: 15,400 mg/kg; practically non-toxic  
Dermal-rabbit LD<sub>50</sub>: 3,100 mg/kg; practically non-toxic  
Inhalation-rat LD<sub>50</sub>: 3.1 mg/l; no effects observed  
"Does not contain substances on the list of toxic materials"

### SECTION 4 - EFFECTS OF OVEREXPOSURE

No known long term effects. The toxicological properties of this material are practically non-toxic.

### SECTION 5 - EMERGENCY & FIRST-AID PROCEDURES

**SKIN:** Remove contaminated clothing. Wash exposed area with soap and water. Launder clothing before reuse.  
**EYES:** Immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart.  
**INGESTION:** Do not induce vomiting; Wash out mouth with water provided person is conscious. Seek medical attention.  
**INHALATION:** no hazard. Prolonged inhalation may cause irritation.

### SECTION 6 - PHYSICAL AND CHEMICAL DATA

**BOILING POINT (760 mm Hg):** 527 °F  
**POUR POINT:** -10 °F  
**VAPOR PRESSURE:** < 0.14 mmHg (20C)  
**SPECIFIC GRAVITY (WATER = 1):** 1.17  
**VISCOSITY:** 150 SUS  
**APPEARANCE:** clear near colorless liquid  
**ODOR:** odorless / slight oil odor  
**SOLUBILITY IN WATER:** 2.1 ug/ml

### SECTION 7 - REACTIVITY DATA

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Has not been reported, is not expected to occur..  
**INCOMPATIBILITY:** Avoid contact with strong acids, oxidizing agents, open flame, pure oxygen.

### SECTION 8 - FIRE AND EXPLOSION INFORMATION

**NFPA, HMIS rating:**  
Health = 1/2 (low); Fire = 2 (low); Reactivity = 0 (none)  
**FLASH POINT:** 285 °F (closed cup)  
**AUTOIGNITION TEMPERATURE:** 511 °F  
**EXTINGUISHING MEDIA:** Water fog, dry chemical, carbon dioxide, foam.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Fire conditions can product toxic fumes of carbon monoxide and phosphorous oxides and peroxides.  
**SPECIAL FIRE FIGHTING PROCEDURES:** As in any fire, wear human protecting clothing and self-contained breathing apparatus in positive pressure mode with confined face piece.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** This product is not defined as flammable or combustible.

### SECTION 9 - HANDLING, STORAGE, AND DISPOSAL

**HANDLING:** Avoid prolonged or repeated skin contact. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion.  
Use in a well ventilated area. If mist is formed or exposure limit of product is exceeded, use of a NIOSH / MSHA approved respirator is advised.  
Wear resistant gloves; safety glasses or splash goggles are advised. Do not take any food or drink, or handle tobacco products while in contact with this product as this may lead to accidental ingestion.  
**STORAGE:** Containers should be stored in a under 149 F, dry location away from foodstuffs to avoid accidental ingestion. Do not store near heat, flame, strong oxidants. Maintain adequate ventilation.  
**SPILL AND LEAK PROCEDURES:** Do not permit product to enter streams, sewers, or other waterways. Eliminate all ignition sources. Dike spill and eliminate leak. Absorb with vermiculite or other absorbent. Transfer absorbent to closed containers for proper disposal.  
**DISPOSAL:** Dispose of in accordance with all local, state, and federal regulations. This product according to the EPA's criteria, is not listed as hazardous waste (RCRA) CFR 261.

### SECTION 11 - ADDITIONAL INFORMATION

**U.S. DOT SHIPPING NAME:** "Product is not regulated during transportation for under 120 gallons"  
**AIR TRANSPORTATION (ICAO/IATA):** "Product is not regulated during transportation"  
**MARINE TRANSPORTATION (IMDG/IMO):** "Product is not regulated during transportation"  
**EPA TSCA:** "All ingredients listed or exempted from on the TSCA 8(b) Inventory (40CFR 710)."

"NOT HAZARDOUS WASTE as defined by RCRA 40 CFR 261 since it does not have the characteristics of subpart C; not listed in subpart D. Not subject to Federal regulation"  
The information contained herein is believed to be accurate and is offered in good faith. The above information is, based on material safety data sheets supplied by the vendors of the raw materials used in this product. Because product use is beyond our control, no warranty is given, expressed, or implied. US Refrigeration Technologies, LLC cannot assume any liability for the use of information contained herein or from damage resulting from handling or contact with the above product. To determine applicability or effect of any law or regulation with respect to the product, users should consult a legal advisor or appropriate governmental agency.