



## MATERIAL SAFETY DATA SHEET

### I) Product and Company Identification

**Manufacturer**

**Radco Industries, Inc.**, PO Box 305 LaFox, IL 60147 USA  
Emergency Phone: (630) 232-7966

Website: www.Xceltherm.com

Product Name: **XCEL THERM® 600** Heat Transfer Fluid  
Effective Date: 03/17/04 Updated: 03/17/09

**Emergency Phone Numbers:**

For chemical emergency, spill, leak, fire exposure,  
accident or medical emergency, call CHEMTREC:  
North America 1-800-424-9300  
International +1 703-527-3887

For shipping emergency or off-hours rush orders call:  
1-630-232-7966 or 1-630-336-6728

### COMPONENTS:

Severely hydroprocessed, solvent refined paraffinic white mineral oil (CAS 8042-47-5).  
Severely hydroprocessed paraffinic white mineral oil (CAS 8042-47-5) ACGIH TLV 5mg/m<sup>3</sup>, STEL 10mg/m<sup>3</sup> (oil mist); OSHA PEL 5mg/m<sup>3</sup>, STEL 10mg/m<sup>3</sup> (oil mist)

### WARNING STATEMENT:

This product has been evaluated and does not require any hazard warning label under the OSHA Hazard Communication Standard.

HMIS/NFPA CODES: (HEALTH: 0), (FLAMMABILITY:1), (REACTIVITY:0)

APPEARANCE AND ODOR: Water-white oily liquid.

### II) HEALTH HAZARD INFORMATION

#### EYE

EFFECT: No significant health hazards identified.

FIRST AID: Flush eyes with plenty of water.

PROTECTION: None required; however, use of eye protection is good industrial practice.

#### SKIN

EFFECT: No significant health hazards identified.

FIRST AID: None required.

PROTECTION: None required.

#### INHALATION

EFFECT: No significant health hazards identified.

FIRST AID: If adverse effects occur, remove to uncontaminated area. Get medical attention.

PROTECTION: None required; however, use of adequate ventilation is good industrial practice.

**XCEL THERM® 600/MSDS**  
**RADCO INDUSTRIES, INC.**  
P.O. Box 305  
LaFox IL 60147  
630-232-7966

**Revision Date 01/26/2007**

#### **INGESTION**

EFFECT: No significant health hazards identified.  
FIRST AID: None required.

#### **III) FIRE AND EXPLOSION INFORMATION:**

FLASHPOINT: 380°F, Minimum (COC) (193°C)  
FIRE POINT: 420°F, Minimum (COC) (216°C)  
AUTOIGNITION TEMPERATURE: 660°F, Minimum (349°C)

EXTINGUISHING MEDIA: Agents approved for Class B hazards (e.g., dry chemical, carbon dioxide, halogenated agents, foam, steam) or water fog.

#### **IV) REACTIVITY INFORMATION:**

DANGEROUS REACTIONS: None identified.  
HAZARDOUS DECOMPOSITION: Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.  
STABILITY: Stable.

#### **V) CHEMICAL AND PHYSICAL PROPERTIES:**

SOLUBILITY IN WATER: Negligible, below 0.1%.  
SPECIFIC GRAVITY (WATER = 1): 0.82 to 0.88  
VISCOSITY: 95-100 SUS @ 100°F

#### **VI) STORAGE AND ENVIRONMENTAL PROTECTION:**

STORAGE REQUIREMENTS: No special requirements.  
SPILLS AND LEAKS: Contain on an absorbent material (e.g., sand, sawdust, dirt, clay).  
WASTE DISPOSAL: Disposal must be in accordance with applicable Federal, State, or Local regulations.

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**VII) TOXICOLOGICAL INFORMATION:**

**EYE:** A similar material produced a primary eye irritation score of 1.0/110; 24 hour (rabbit).  
**SKIN:** A similar material produced a primary dermal irritation score of 2.7/8.0. A similar material had a LD50 greater than 2g/kg and was not a skin sensitizer. A similar material produced minimal skin irritation in humans (0.1/12) following five consecutive applications.

**INGESTION:** A similar material had a LD50 greater than 5g/kg.

A representative white mineral oil was not carcinogenic to the skin of mice in a two-year study.

Minor changes have been reported in the lungs of animals exposed to mineral oil mist at a concentration of 100mg/m3 for two years. No changes have been detected in animals exposed to oil mist at a concentration of 5mg/m3 or 50mg/m3 for 2 years of 18 months respectively.

No component of this product is identified as a carcinogen by NTP, IARC or OSHA.

**VIII) REGULATORY INFORMATION:**

**CERCLA REPORTABLE QUANTITY:** This product is not reportable under 40 CFR Part 302.4.

**DOT PROPER SHIPPING NAME:** Not regulated.

**OSHA HAZARD COMMUNICATION STANDARD:** Listed by ACGIH.

**RCRA STATUS:** This product is not subject to the 40 CFR Part 268.30 land ban on the disposal of certain hazardous wastes.

**SARA STATUS:** This product is not regulated under SARA Title III, 42 USC 9601.

**TSCA STATUS:** All of the components of this product are listed on the TSCA inventory.

**IX) SUPPLEMENTAL INFORMATION:**

**USDA STATUS:** This product is acceptable to the USDA as a lubricant with incidental food contact for use in official meat and poultry establishments (H1 Status).

**FDA STATUS:** This product meets or exceeds FDA requirements for direct use in food according to 21 CFR 172.878. It may also be used in products where indirect (incidental) contact with food may occur under 21 CFR 178.3620 and for animal feed under 21 CFR 573.680.

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

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