



**XCELTHERM® DCT HEAT TRANSFER FLUID**  
**SAFETY DATA SHEET**

**1. PRODUCT AND COMPANY IDENTIFICATION**

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**Product Name**

XCELTHERM® DCT HEAT TRANSFER FLUID

**Recommended Use**

Thermal oil for use up to 600°F (315°C)

**ISO 9001:2008 Certification Number: C2012-00071**

**Company Identification**

Headquarters and Manufacturing Facility:  
Radco Industries, Inc.  
700 Kingsland Drive  
Batavia, IL 60510 USA

Customer information number: 1-630-232-7966

**EMERGENCY TELEPHONE NUMBER**

**Advisory Office in case of poisoning: Chemtrec**

Chemtrec (North America): 1-800-424-9300

**2. HAZARDS IDENTIFICATION**

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**Classification of mixture:** Non-hazardous

**Hazard Pictograms:** None

**Signal Word:** None

**Hazard Statements:** None

**Precautionary Statements:**

P301 + P315 +P331: IF SWALLOWED: Do NOT induce vomiting. Get immediate medical advice/attention.

P305 + P351: IF IN EYES: Rinse cautiously with water for several minutes.

P350: Gently wash with soap and water.

P501: Dispose of contents and container to an approved waste disposal plant.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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<b>Components</b>	<b>%Content</b>	<b>CAS Number</b>
White mineral oil (petroleum)	>90%	Proprietary

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**4. FIRST-AID MEASURES**

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**Eyes**

Immediately flush eyes with plenty of water for at least 15 minutes.



### **Ingestion**

DO NOT induce vomiting. Immediately call a doctor.

### **Inhalation**

Move to fresh air. If unconscious place in recovery position and seek medical advice. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. Remove from further exposure. Immediately call a doctor.

## **5. FIRE-FIGHTING MEASURES**

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### **Suitable Extinguishing Media**

For small fires use carbon dioxide, dry chemical or foam.

For large fires use alcohol-type foam, universal type foam or water fog.

### **Fire-Fighting Equipment**

Firefighter should wear normal protective equipment (full bunker gear) and positive-pressure contained breathing apparatus. Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Water runoff can cause environmental damage. Dike and collect water used to fight fires.

### **Special Fire-Fighting Procedures**

Use water spray to cool fire-exposed containers and structures. If a rail or tank truck is involved in a fire, isolate for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

## **6. ACCIDENTAL RELEASE MEASURES**

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Wear protective clothing when taking up spill. Eliminate sources of ignition. This product is insoluble in water and will float on the surface. Prevent from entering sewers or drains. Should this product enter sewers or drains, it should be pumped out into an open vessel.

## **7. HANDLING AND STORAGE**

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### **Handling**

Do not breathe vapors/dust. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

### **Storage**

Do not store in open or unlabeled containers. Keep container tightly closed in a dry and well-ventilated place.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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ACGIH TLV: 5 mg/m<sup>3</sup>

OSHA PEL: 5 mg/m<sup>3</sup>

### **Respiratory Protection**

Use with adequate ventilation. Avoid breathing vapor. If heated and ventilation is inadequate, use NIOSH certified respirator, which will protect against organic vapor.

### **Hand Protection**

Wear clothing and gloves that cannot be penetrated by chemicals or oil.

### **Eye Protection**

Safety glasses, chemical goggles, or face shields recommended to prevent contact.

**Other Protection**

Do not eat, drink, or smoke when handling this product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**“PHYSICAL AND CHEMICAL PROPERTIES” DATA REPRESENTS TYPICAL LABORATORY SAMPLES, AND ARE NOT GUARANTEED FOR ALL SAMPLES.**

Appearance:	water-white, clear liquid
Odor:	Faint, oily
Odor threshold:	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature (ASTM D6743):	Not determined
Evaporation Rate (EPA method 24 Percent Volatiles):	4.9%
Flash point Cleveland Open Cup (ASTM D92):	>177°C (350°F)
Flash point Pensky-Martens (ASTM D93):	>161°C (322°F)
Flammability (solid, gas):	Non-flammable
Lower flammability limit:	Not determined
Upper flammability limit:	Not determined
Normal boiling point:	>300°C (572°F)
Melting point/freezing point:	Not applicable
Partition coefficient (n-octanol/water), Log P <sub>ow</sub> :	Not determined
pH:	Not applicable
Solubility:	Water insoluble
Specific Gravity at 25°C (77°F) (ASTM D1298)	0.83 – 0.87
Vapor density:	Not determined
Vapor pressure:	0.00 mmHg at 25°C
Viscosity (ASTM D445):	14.0 – 18.5 cSt at 40°C

**10. STABILITY AND REACTIVITY INFORMATION****Materials to avoid**

Exposure to materials which are highly oxidizing should be avoided.

**Hazardous polymerization**

Does not occur.

**Hazardous decomposition products**

Incomplete combustion may give various cracked and oxidized hydrocarbons.

**Stability**

Stable

**11. TOXICOLOGICAL INFORMATION****Acute toxicity and immediate effects.**

Acute effects include mild skin irritation and aspiration pneumonitis after ingestion.

**Ingestion**

Ingestion can cause aspiration into the lungs.

LC50 (rat) > 2,460 mg/m<sup>3</sup>/4hr



**Inhalation:**

Inhalation of excessive severely refined mineral oil aerosols may induce an inflammatory response, and possibly develop further to fibrosis.

**Delayed and chronic effects**

**Carcinogenicity:**

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

**Inhalation:**

Aspiration may cause pulmonary edema or aspiration pneumonia. Oil deposits in the lung may lead to fibrosis and reduced pulmonary function. Prolonged or repeated inhalation of excessive amounts of oil mist or vapors may cause irritation of the respiratory tract.

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**12. ECOLOGICAL INFORMATION**

Ecotoxicity data is not available.

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**13. DISPOSAL INFORMATION**

“Empty” containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition; they may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove and even a trace of remaining material constitutes as explosive hazard. “Empty” drums should be completely drained, properly bunged, and promptly returned to a drum recycler. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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**14. TRANSPORT INFORMATION**

**U.S. Dept. of Transportation Shipping Name**

Not regulated.

**Canadian Transportation of Dangerous Goods Shipping Name**

Not regulated.

**European Rail/Road (ADR/RID) Shipping Name**

Not regulated.

**Air (ICAO/IATA) Shipping Name**

Not regulated.

**Sea (IMO/IMDG)**

Not regulated.

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**15. REGULATORY INFORMATION**

**California (Proposition 65)**

This product does not contain any of the substances known to the State of California to cause cancer, birth defects, or reproductive harm.

**CERCLA Reportable Quantity**

This product is not reportable under 40 CFR Part 302.4.

**Environmental Protection Agency**



None of the ingredients are listed

**National Toxicology Program (NTP)**

None of the ingredients are listed.

**OSHA Hazard Communication Standard**

Not hazardous per 29 CFR 1910.1200(d).

**SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355)**

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

**SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370)**

Hazardous categories for this product are: Acute=no; Chronic=no; Fire=no; Pressure=no; Reactive=no.

**SARA Title III Section 313 (40 CFR Part 372)**

This product is not regulated under Section 313 of SARA and 40 CFR Part 372.

**U.S. Inventory (TSCA)**

Listed on inventory.

**Australia Inventory (AICS)**

Listed on inventory.

**Canada Inventory (DSL)**

All of the ingredients are listed.

**China (CICS)**

None of the ingredients are listed.

**EC Inventory (EINECS/ELINCS)**

In Compliance

**International Agency for Research on Cancer (IARC)**

None of the ingredients are listed.

**Japan Inventory (MITI)**

Listed on inventory.

**Korea Inventory (ECL)**

Listed on inventory.

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**16. OTHER INFORMATION**

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