



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: 3/17/2004 Revision Date: 9/13/2010	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
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II. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	CAS#	CONCENTRATION
Severely hydroprocessed, solvent refined paraffinic white mineral oil	8042-47-5	100%

Severely hydroprocessed paraffinic white mineral oil (CAS 8042-47-5) ACGIH TLV 5mg/m³, STEL 10mg/m³ (oil mist); OSHA PEL 5mg/m³, STEL 10mg/m³ (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
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III. 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.

INGESTION

Effect: No significant health hazards identified.
First Aid: None required.

IV. Fire and explosion information

Flashpoint (COC): ≥ 380°F (193°C)

Fire Point (COC): ≥ 420°F (216°C)

Autoignition Temperature: ≥ 660°F (349°C)

Extinguishing Media

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



V. REACTIVITY INFORMATION

Dangerous Reactions

None identified.

Hazardous Decomposition

Incomplete burning can produce carbon monoxide and/or carbon dioxide and other harmful products.

Stability

Stable.

VI. CHEMICAL AND PHYSICAL PROPERTIES

Appearance and Odor: Water-white oily liquid.

Solubility in Water: Negligible, below 0.1%.

Specific Gravity (Water = 1): 0.80 to 0.88

Viscosity: 95-100 SUS @ 100°F

VII. 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.

VIII. 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.

IX. REGULATORY INFORMATION

UNITED STATES

CALIFORNIA (Proposition 65 and CARB)

This product does not contain any of the substances known to the State of California to cause cancer, birth defects, or reproductive harm. It also contains no volatile organic compounds (VOC) as defined by the California Air Resources Board (CARB).



IX. REGULATORY INFORMATION continued

CERCLA Reportable Quantity

This product is not reportable under 40 CFR Part 302.4.

DOT Proper Shipping Name

Not regulated.

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.

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.

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).

XCEL THERM[®] 600 contains no Volatile Organic Compounds (VOC) as defined in EPA regulation 40 CFR Part 59, National Volatile Organic Emission Standards for Consumer and Commercial Products.

INTERNATIONAL

AUSTRALIA Inventory (AICS)

Listed on inventory.

CANADA Inventory (DSL)

All the components of this product are listed on the DSL.

EC Inventory (EINECS/ELINCS)

In compliance.

JAPAN Inventory (MITI)

Listed on inventory.

KOREA Inventory (ECL)

Listed on inventory.

PHILLIPPINE Inventory (PICCS)

Listed on inventory.

X. SUPPLEMENTAL INFORMATION

WARNING: "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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