



**XCELTHERM® ELECTRICAL INSULATING OIL
MATERIAL DATA SAFETY SHEET**

Radco Industries, Inc.

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ISO 9001:2000 Certification Number: C2009-00209

CAGE# 1RVC4

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Effective Date: 01/02/09

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

Section I PRODUCT IDENTIFICATION

**Product Name: XCELTHERM® ELECTRICAL INSULATING OIL, TYPE II
I/A/W ASTM D 3487-00, TYPE II**

Section II COMPONENTS

	<u>CAS#</u>	<u>% by Wt.</u>	<u>TLV</u>	<u>PEL</u>
Hydrotreated light naphthenic distillate	64742-53-6	100.0%	5 mg/m ³	5 mg/m ³

Section III HAZARDS IDENTIFICATION

Emergency Overview: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation. Harmful if aspirated into the lungs.

Potential Health Effects:

Eye Contact:	May cause mild irritation.
Skin Contact:	May cause mild irritation
Inhalation:	May cause nasal/respiratory irritation, dizziness.
Ingestion:	May cause gastro-intestinal irritation, nausea, vomiting, and diarrhea.

HMIS Code: (Health: 0) (Flammability: 1) (Reactivity: 0)

NFPA Code: (Health: 0) (Flammability: 1) (Reactivity: 0)

Section IV FIRST AID MEASURES

Eye: Immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician if irritation persists.

Skin: Remove contaminated clothing. Wash exposed skin with soap and water.

Inhalation: If adverse effects occur, remove to uncontaminated area. Administer oxygen if deemed necessary. If breathing has stopped, administer CPR; contact a physician.

Ingestion: If swallowed, consult a physician, DO NOT induce vomiting.

Section V FIRE FIGHTING MEASURES / FIRE DATA

Flash Point : 295°F / 146°C (COC)
UEL: Not Determined
LEL: Not Determined

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

Unusual Fire And Explosion Hazards: Empty containers may contain product residue or vapors which can ignite explosively; do not cut, weld, or drill on or near empty or full containers.

Fire Fighting Equipment: Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

Section VI ACCIDENTAL RELEASE MEASURES

Prevent spreading by diking, ditching, or absorbing with inert materials. Keep out of sewers and waterways. Dispose of by method in compliance with local, state and federal regulations regarding health, air, and water pollution. May be destroyed by controlled incineration.

Reporting: CERCLA: Product is covered by EPA's CERCLA petroleum exclusion. Releases to air, land, or water are not reportable under CERCLA. CWA: Spills in to or leading to surface waters that cause a sheen must be reported to the NPR, 1-800-424-8802.

Section VII HANDLING AND STORAGE

Handling: Do not breath vapors. Avoid ingestion. Wash hands with soap and water before eating, drinking, smoking, etc.

Storage: Store at temperatures between 10°C and 50°C, in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

Section VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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

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

Engineering Controls: Local exhaust ventilation is recommended at bulk vessel openings when handling heated materials.

Section IX CHEMICAL AND PHYSICAL PROPERTIES

Appearance And Odor: Bright and clear liquid. Petroleum odor.
pH: Not Determined
Dielectric Strength: 20 KV – 30 KV
Boiling Point: >400 F
Pour Point: - 40 F
Solubility In Water: Not Soluble
Specific Gravity: 0.89 at 25 C
Viscosity: 10.0 – 20.0 cSt at (40 C)

Section X STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Heat, open flames.

Materials To Avoid: Avoid contact with strong oxidizing agents.

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

Hazardous Polymerization: Will not occur.

Section XI TOXICOLOGICAL INFORMATION

ACUTE TOXICITY DATA:

Eye Irritation: N/A
Skin Irritation: N/A
Dermal LD50: N/A
Oral LD50: N/A
Inhalation LD50: N/A
Other Toxicity Data: N/A

No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, the U.S. Occupational safety And Health Act, or the International Agency on Research on Cancer (IARC).

Section XII ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

Section XIII DISPOSAL INFORMATION

Disposal must be in accordance with applicable federal, state, or local regulations.

RCRA: This unused material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive, ignitable, or reactive according to U.S. EPA definitions (40 CFR Subpart C). This material could also become hazardous waste if it is mixed with or comes into contact with a listed hazardous waste. If it is a hazardous waste, regulations in 40 CFR 262-266, 268, 270, and 279 may apply.

Section XIV TRANSPORTATION INFORMATION

U.S. Dept. Of Transportation Shipping Name:	Not Regulated
International Information: Sea (IMO/IMDG):	Not Regulated
Air (ICAO/IATA) Shipping Name:	Not Regulated
European Rail/Road (ADR/RID) Shipping Name:	Not Regulated
Canadian Transportation of Dangerous Goods Shipping Name:	Not Regulated

Section XV REGULATORY INFORMATION

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4): This product is not reportable under 40 CFR Part 302.4.

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.

OSHA Hazard Communication Standard: Hazardous per 29CFR 1910.1200(d).

WHMIS Controlled Product Classification: Not a controlled Product under Canada's Workplace Hazardous Material Information System.

Section XVI OTHER INFORMATION

This product, to the best of our knowledge, does not contain and is not manufactured with any Class I or II Ozone Depleting Chemicals. (ODCs).

WARNING: This product does contain chemical(s) listed by the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as causing cancer.

This material safety data sheet and the information it contains is offered in good faith as accurate. We have reviewed all 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 this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.