



XCELTHERM[®] ELECTRICAL INSULATING OIL, TYPE 2 MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

XCELTHERM[®] ELECTRICAL INSULATING OIL, TYPE 2

Meets Military Specification ASTM D3487-00, TYPE 2

NSNs: 9160-01-419-0888, 9160-00-926-2124, 9150-00-075-9816

Company Identification:

Radco Industries Inc.

PO BOX 305

LaFox, IL 60147

ISO 9001:2000 Certification Number: C2009-00209

Customer information number: 1-630-232-7966

Shipping emergency or off hour rush orders number: 1-630-336-6728

EMERGENCY TELEPHONE NUMBER

Advisory Office in case of poisoning:

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

Chemtrec al (International): 1-703-527-3887

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	% Content	CAS
Hydrotreated light naphthenic distillate	100	64742-53-6

SECTION 3. 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**

May cause mild irritation.

Ingestion

May cause gastro-intestinal irritation, nausea, vomiting, and diarrhea.

Inhalation

May cause nasal/respiratory irritation, dizziness.

Skin Contact

May cause mild irritation.

**SECTION 3. HAZARDS IDENTIFICATION continued****HMIS**

Health: 0	Fire: 1	Reactivity: 0
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NFPA Codes

Health: 0	Fire: 1	Reactivity: 0
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SECTION 4. FIRST AID MEASURES**Eyes**

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

Ingestion

If swallowed, drink plenty of water, DO NOT induce vomiting. Immediately call a doctor.

Inhalation

If adverse effects occur, remove to uncontaminated area. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Skin

Wash exposed skin with soap and water.

SECTION 5. FIRE FIGHTING MEASURES**Suitable Extinguishing Media**

Agents approved for Class B hazards:

- Dry chemical
- Carbon dioxide
- Halogenated agents
- Foam
- Steam
- Water fog

Fire Fighting Equipment

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

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..

SECTION 6. ACCIDENTAL RELEASE MEASURES**Action to take for spills/leaks**

Prevent spreading by diking, ditching, or absorbing on inert materials. Keep out of sewers and waterways.

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 7. HANDLING AND STORAGE****Handling**

Do not breathe vapors. Avoid ingestion.

Storage

Store at temperatures between 10°C and 50°C.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure guidelines**

Component	CAS#	Exposure Limits
Hydrotreated light naphthenic distillate	64746-53-6	None Established

Eye protection

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

Skin protection

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

Ventilation

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Bright & Clear liquid
Odor:	Petroleum Odor
Pour Point:	Not determined
Boiling point:	> 400 F
Flash point (COC):	295 F (146 C) (COC)
Flammability Classification:	- 40 F (-40 C)
Dielectric Strenght:	20 KV – 30 KV
Solubility in water:	Not Soluble
Specific gravity at 25°C:	0.88
Viscosity at 40°C:	10.0 – 20.0 cSt



SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid

Temperature sources which induce thermal decomposition.

Dangerous reactions

No dangerous reactions known.

Hazardous decomposition products

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

Hazardous polymerization

Will not occur

Materials to avoid

Avoid contact with strong oxidizing agents.

Stability

Stable

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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).

Dermal LD50

Testing not conducted. See other Toxicity Data.

Eye

Testing not conducted. See other Toxicity Data.

Inhalation LD50

Testing not conducted. See other Toxicity Data.

Oral LD50

Testing not conducted. See other Toxicity Data.

Skin irritation

Testing not conducted. See other Toxicity Data.

Sensitization

Testing not conducted. See other Toxicity Data.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic toxicity

No data available



SECTION 13. DISPOSAL INFORMATION

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

Do not allow product to reach ground water, water course, or sewage systems.

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 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.

SECTION 15. REGULATORY INFORMATION

United States 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.



SECTION 15. REGULATORY INFORMATION continued

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 16. 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.

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