



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 [®] 500 Heat Transfer Fluid Effective Date: 7/26/2007 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

COMPONENT	CAS#	RANGE % BY WT.
1- Decene, Dimer, Hydrogenated (Polyalphaolefin)	68649-11-6	100%

III. HEALTH HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Caution! Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation. Harmful is aspirated into lungs.

EYE

Effect: No significant health hazards identified.
First Aid: Flush eyes with plenty of water for at least 15 minutes.
Protection: None required; however, use of eye protection is good industrial practice.

SKIN

Effect: No significant health hazards identified.
First Aid: Wash exposed skin with soap and water
Protection: None required.

INHALATION

Effect: Inhalation of oil mist or vapors at elevated temperatures may cause respiratory irritation.
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: Significant adverse health effects are not expected if small amounts (less than a mouthful) are swallowed.
First Aid: If swallowed, drink plenty of water. DO NOT induce vomiting.
Protection: Do not ingest.

IV. FIRE AND EXPLOSION INFORMATION

Flash point (COC): $\geq 163^{\circ}\text{C}$ (325 $^{\circ}\text{F}$)

Fire point (COC): $\geq 177^{\circ}\text{C}$ (350 $^{\circ}\text{F}$)

Autoignition temperature: $\geq 329^{\circ}\text{C}$ (628 $^{\circ}\text{F}$)

HMIS/NFPA Codes

Health: 1	Flammability: 1	Reactivity: 0
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RADCO INDUSTRIES, INC., P.O. Box 305LaFox IL 60147

Page 2 of 9

Product name: **XCELTHERM[®] 500**

Effective Date: 2007-07-26 Revision Date: 2010-09-10

Extinguishing media

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



IV. FIRE AND EXPLOSION INFORMATION continued

Unusual Fire and Explosion Hazards

None Identified.

Fire Fighting Equipment

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

V. ACCIDENTAL RELEASE MEASURES

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

VI. HANDLING AND STORAGE

HANDLING

Do not breathe vapors. Avoid ingestion.

STORAGE

Store at temperatures between 10°C and 50°C

VII. 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

Locate exhaust ventilation is recommended at bulk vessel openings when handling heated materials.

EXPOSURE GUIDELINES

COMPONENT	CAS#	EXPOSURE LIMITS
1-Decene, Dimer, Hydrogenated	68649-11-6	None established

VIII. CHEMICAL AND PHYSICAL PROPERTIES

Appearance and odor: Liquid. Colorless. Odorless.**Boiling point:** Not Determined**Melting point:** Not Determined**pH:** Not Determined**Pumpability point:** - 62°C (-80°F)**Solubility in water:** Negligible, <0.1%**Specific gravity:** 0.80 at 15.6°C



IX. REACTIVITY INFORMATION

Dangerous Reactions

None identified.

Hazardous Decomposition

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

Hazardous Polymerization

Will not occur.

Conditions to avoid

Temperature sources which induce thermal decomposition.

Materials to avoid

Avoid contact with strong oxidizing agents.

Stability

Stable

X. TOXICOLOGICAL INFORMATION

Eye: Testing not conducted. See other toxicity data.

Skin irritation: Testing not conducted. See other toxicity data.

Dermal LD50: Testing not conducted. See other toxicity data.

Oral LD50: Testing not conducted. See other toxicity data.

Inhalation LD50: Testing not conducted. See other toxicity data.

Other Toxicity Data: Toxicity data available upon request.

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).

XI. ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

XII. 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.

XIII. TRANSPORTATION INFORMATION

U.S. Dept. of Transportation Shipping Name

Not regulated.



RADCO INDUSTRIES, INC., P.O. Box 305LaFox IL 60147

Page 6 of 9

Product name: **XCELTHERM[®] 500**

Effective Date: 2007-07-26 Revision Date: 2010-09-10

Air (ICAO/IATA) Shipping Name

Not regulated.

Sea (IMO/IMDG)

Not regulated.



XIII. TRANSPORTATION INFORMATION continued

Canadian Transportation of Dangerous Goods Shipping Name

Not regulated.

European Rail/Road (ADR/RID) Shipping Name

Not regulated.

XIV. REGULATORY INFORMATION

UNITED STATES

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 Sections 102A/103 Hazardous Substances (40 CFR Part 302.4)

This product is not reportable under 40 CFR Part 302.4.

FDA Status

This product is approved for use by the FDA under the following sections or 21 CFR: Part 178.3620 (b) as components of non-food articles intended for contact with food provided such complies with any applicable limitations listed in Parts 170 through 189 of this chapter.

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.

WHMIS Controlled Product Classification

Not a controlled product under Canada's Workplace Hazardous Material System.

USDA H 1 Status

This product is approved by the USDA as a lubricant with incidental food contact for use in official meat and poultry establishments.

XCEL THERM[®] 500 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. It is also non-VOC as defined by the California Air Resources Board (CARB).

INTERNATIONAL

AUSTRALIA Inventory (AICS)

Listed on inventory.

CANADA Inventory (DSL)

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



RADCO INDUSTRIES, INC., P.O. Box 305LaFox IL 60147

Page 8 of 9

Product name: **XCEL THERM[®] 500**

Effective Date: 2007-07-26 Revision Date: 2010-09-10

EC Inventory (EINECS/ELINCS)

In compliance.

JAPAN Inventory (MITI)

Listed on inventory.



XIV. REGULATORY INFORMATION continued

KOREA Inventory (ECL)

Listed on inventory.

PHILLIPPINE Inventory (PICCS)

Listed on inventory.

XV. 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).

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.

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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