



1. 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
Revised Date: 11/25/2008 Effective Date: 2/9/2010

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

I) COMPONENTS:

	CAS#	Range % by Wt.
1- Decene, Dimer, Hydrogenated (Polyalphaolefin)	68649-11-6	100%

II) HEALTH HAZARD INFORMATION

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.

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

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

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III) FIRE AND EXPLOSION INFORMATION:

FLASHPOINT: 325°F, Minimum (COC) (163°C)
FIRE POINT: 350°F, Minimum (COC) (177°C)
AUTOIGNITION TEMPERATURE: 625°F, Minimum (COC) (329°C)

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: None Identified.

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

IV) ACCIDENTAL RELEASE MEASURES:

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

V) HANDLING AND STORAGE:

HANDLING: Do not breathe vapors. Avoid ingestion.

STORAGE: Store at temperatures between 10°C and 50°C

VI) 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:

<u>Component</u>	<u>CAS #</u>	<u>Exposure Limits</u>
1-Decene, Dimer, Hydrogenated	68649-11-6	None Established

VII) CHEMICAL AND PHYSICAL PROPERTIES:

Appearance And Odor: Liquid. Colorless. Odorless.
pH: Not Determined
Vapor Pressure: < 1 mm Hg at 20 C.
Vapor Density: Not Determined
Boiling Point: Not Determined
Melting Point: Not Determined
Solubility In Water: Negligible, <0.1%
Specific Gravity: 0.80 at 15.6 C
Viscosity: 1.65 - 2.10 cSt at 212 F (100 C)
Pumpability Point: -80 F (- 62 C)

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VIII) 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.

IX) 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).

X) ECOLOGICAL INFORMATION:

Ecological testing has not been conducted on this product.

XI) 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.

XII) 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.

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XIII) 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 CATERGORIZATION (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:

Not hazardous per 29CFR
1910.1200(d).

WHMIS CONTROLLED PRODUCT CLASSIFICATION:

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

EC INVENTORY (EINECS/ELINCS):

In compliance.

JAPAN INVENOTRY (MITI):

Listed on inventory.

AUSTRALIA INVENTORY (AICS):

Listed on inventory.

KOREA INVENTORY (ECL):

Listed on inventory.

CANADA INVENTORY (DSL):

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

PHILLIPPINE INVENTORY (PICCS):

Not determined.

FOOD CONTACT STATUS:

FDA: This product is approved for use by the FDA under the following sections of 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.

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.

XIV) 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 product does not contain chemicals listed by the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as causing cancer or reproductive toxicity.

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.

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