



XCEL THERM[®] 445FP Heat Transfer Oil MSDS

Section I PRODUCT 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[®] 445FP Heat Transfer Fluid
Effective Date: 01/03/07

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

Section II COMPONENTS:

Hydro processed, naphthenic mineral oil (CAS 64742-53-6: 60-80%).
(CAS 64742-52-5: 20-40%).

Section III HAZARDS IDENTIFICATION

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)

APPEARANCE AND ODOR: Pale yellow, oily liquid.

Section IV FIRST AID MEASURES

EYE CONTACT

EFFECT: This product is practically non-irritating to the eyes upon direct contact based on testing of similar products and/or components.

FIRST AID: Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and take victim to hospital immediately.

PROTECTION: Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

SKIN CONTACT

EFFECT: Avoid skin contact. This product may cause slight skin irritation upon direct contact based on testing of similar products and/or components. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. These conditions may make the skin more susceptible to other irritants, sensitizers, and disease. Prolonged or repeated contact may result in oil acne which is characterized by blackheads with possible secondary infection. See health data section below.

FIRST AID: Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital.

PROTECTION: No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled articles including shoes.

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Section IV FIRST AID MEASURES, continued

INHALATION

EFFECT: This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. The permissible exposure limit (PEL) and threshold limit value (TLV) for this product as oil mist is 5 mg/m³. Exposures below 5 mg/m³ appear to be without significant health risk. The short-term exposure limit of this product as an oil mist is 10 mg/m³.

FIRST AID: This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions.

PROTECTION: Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.

INGESTION

EFFECT: Do not ingest. This product is relatively non-toxic by ingestion. This product has laxative properties and may result in abdominal cramps and diarrhea. See health data section below.

FIRST AID: Do not induce vomiting. Seek medical attention.

OTHER HEALTH INFORMATION

On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. This condition is usually asymptomatic as a result of repeated small aspirations. Shortness of breath and cough are the most common symptoms.

The international agency for research on cancer has concluded that highly refined mineral oils are group 3 substances. Not classifiable as to their carcinogenicity to humans, based on inadequate human and inadequate animal evidence. This substance is not carcinogenic according to the OSHA hazard communications standard.

Section V FIRE AND EXPLOSION INFORMATION

FLASHPOINT: 445°F, MIN.

TEST METHOD: D92 (COC)

FIRE POINT: 480°F, MIN.

TEST METHOD: D92 (COC)

AUTOIGNITION TEMPERATURE: 715°F, MIN.

FLAMMABLE LIMITS IN AIR % BY VOLUME

LOWER: N/D

UPPER: N/D

EXTINGUISHING MEDIA:

Use dry chemical, foam, or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES:

Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

USUAL FIRE & EXPLOSIVE CONDITIONS:

Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

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Section VI REACTIVITY INFORMATION

STABILITY (Thermal, Light, Etc.): Stable.

CONDITIONS TO AVOID: None.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY MATERIALS TO AVOID: May react with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None.

Section VII STORAGE & ENVIRONMENTAL PROTECTION

STORAGE REQUIREMENTS:

Do not transfer to unmarked containers, store in closed containers away from heat, sparks, open flame, or oxidizing materials. Fire extinguishers should be kept readily available. See: NFPA 30 and OSHA 1910.106- Flammable & Combustible Liquids.

SPILLS & LEAKS:

Notify appropriate authorities of spill. Contain spill immediately. Do not allow spill to enter sewers or watercourses. Remove all sources of ignition. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means. Place in drums or other suitable containers.

WASTE DISPOSAL METHOD:

All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. CAUTION! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of transportation (DOT) regulations may apply for transporting this material when spilled. Waste material may be landfilled, reprocessed, or incinerated at an approved facility. Materials should be recycled if possible.

Section VIII CHEMICAL AND PHYSICAL PROPERTIES

Appearance and Odor:	Clear and Bright, Odor of a petroleum hydrocarbon (mild)
Vapor Pressure:	Nil
Vapor Density:	(Air=1) >1
Boiling Point:	>675°F
Solubility In Water:	Insoluble
Specific Gravity:	0.87
Percent Volatile:	Nil
Melting Point:	No data
Evaporation Rate:	(EE=1) No data
Molecular Weight:	446

Section IX ADDITIONAL INFORMATION

DOT REGULATION: Not regulated.

TASCA INVENTORY: Listed

SARA STATUS: This product does not contain any reportable chemicals under SARA Title III, Section 313.

No component of this product is identified as a carcinogen by NTP, IARC, or OSHA.

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Section X SUPPLEMENTAL INFORMATION

This material safety data sheet and the information it contains are 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 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.

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