



MORCUT HT-5 SDS

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name on Label: MOOREFLO MORCUT HT-5 HMI / NFPA

Other Identification: N/A

Use of the substance/mixture: HT oils are process oils used as a diluent or carrier in the production of a variety of finished industrial products.

Company name : MOORE OIL COMPANY
4033 WEST CUSTER AVE
MILWAUKEE, WI 53209 (414) 462-3200

Emergency number: (800) 424-9300 - CHEMTREC

SECTION 2: Hazards identification

GHS Classification

Aspiration hazard: Cat. 1 Acute Toxicity: Cat. 4 Eye Irritation: Cat. 2B Skin Irritation: Cat. 3

GHS Label element



Hazard pictograms:

Signal word: Danger

Hazard statements: May be fatal if swallowed and enters airways.

Precautionary statements

Response: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. P331 Do NOT induce vomiting. Wear protective gloves/protective clothing/eye protection/face protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or you feel unwell: Call a doctor/physician.

Storage: Store locked up.

Disposal: Dispose of contents/ container to an approved waste disposal plant.

Potential Health Effects:

Primary Routes of Entry: Eye contact, Ingestion, Inhalation, Skin contact

Aggravated Medical Condition: None known.

Carcinogenicity:

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.



MORCUT HT-5 SDS

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3: Composition/information on ingredients

Mixture

NAME	PRODUCT IDENTIFIER	% BY WT
Distillates (petroleum), hydrotreated light	64742-47-8	95-98
Chlorinated Alkanes Chain Length 14-17	61788-76-9	2-5

SECTION 4: First aid measures

If inhaled: Move to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.
In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice.
In case of eye contact: Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 30 minutes. Obtain medical attention.
If swallowed: Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.
Most important symptoms and effects, both acute and delayed: First aider needs to protect himself.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Use carbon dioxide, foam, sand or sodium bicarbonate.
Unsuitable extinguishing media: No information available.
Specific hazards during firefighting: Avoid breathing vapors or dusts. Use self-contained breathing apparatus with full face piece and protective clothing. Cool closed containers exposed to fire with water spray.
Hazardous combustion products: Carbon oxides (CO, CO₂), smoke and irritating vapors as products of incomplete combustion.
Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.
Environmental precautions: Should not be released into the environment. Do not allow uncontrolled discharge of product into the environment.
Methods and materials for containment and cleaning up: Prevent further leakage or spillage if safe to do so. Remove all sources of ignition. Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation. Contact the proper local authorities.



MORCUT HT-5 SDS

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. If material is too viscous for pumping scrape it up with shovels into suitable containers for recycle or disposal.

Large Spills: Dike far ahead of spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7: Handling and storage

Advice on safe handling: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition. Keep container closed when not in use.

Conditions for safe storage: Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight. Keep locked up or in an area accessible only to qualified or authorized persons. Use good engineering practices to establish good ventilation. Avoid contact with skin, eyes and clothing. Wear suitable protective equipment to protect from contact. Avoid breathing mist or vapors. Wash skin thoroughly after handling. Store in closed containers away from extreme heat, sparks, open flame or oxidizing materials.

SECTION 8: Exposure controls/personal protection

Components with workplace control parameters – Contains no substances with occupational exposure limit values.

Engineering measures: Good general ventilation and/or local exhaust ventilation at the point of generation is recommended.

Personal protective equipment

Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter type: organic vapor filter

Hand protection Material: Wear appropriate protective gloves to prevent direct contact. Neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R).

Remarks: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Wear safety goggles to prevent eye contact with substance. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: Impervious apron if needed to avoid prolonged or repeated skin contact.

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures: Wash contaminated clothing before re-use. No special protective equipment required.



MORCUT HT-5 SDS

Hygiene measures: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9: Physical and chemical properties

Physical state: Viscous liquid.

Color: Clear to amber.

Odor: Mild petroleum oil like.

Odor threshold pH: Not available.

Melting point/freezing point: Not available.

Initial boiling point and boiling range: Not available.

Flash point: Closed cup: 147°C [Pensky-Martens.] Open cup: 149°C [Cleveland.]

Evaporation rate: Not available.

Flammability (solid, gas): Low fire hazard. This material must be heated before ignition will occur.

Burning time: Not available.

Burning rate: Not available.

Upper/lower flammability or explosive limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Relative density: 0.855 kg/L @ 15°C (59°F)

Solubility(ies): Insoluble in water

Partition coefficient: n- octanol/water: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Explosive properties: Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Oxidizing properties: Not available.

Viscosity: 5.7 cSt @ 40°C (104°F), 1.8 cSt @ 100°C (212°F)

Pour point: -12°C (10°F)

SECTION 10: Stability and reactivity

Reactivity: Stable

Chemical stability: Stable

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid (e.g., static discharge, shock, or vibration): Extreme heat or cold.

Incompatible materials: Reactive with oxidizing agents.

Hazardous decomposition products: May release CO_x, smoke and irritating vapors when heated to decomposition.

SECTION 11: Toxicological information

Information on likely routes of exposure: Eye contact, Ingestion, Inhalation, Skin contact

Acute toxicity Product:

Acute oral toxicity

Remarks: No data available



MORCUT HT-5 SDS

Acute inhalation toxicity Remarks: No data available
Acute dermal toxicity Remarks: No data available
Components: distillates (petroleum), hydrotreated light:
Acute oral toxicity LD50 (Rat): > 2,000 mg/kg
Acute inhalation toxicity LC50 (Rat): 4.1 mg/l Exposure time: 4 h
Acute dermal toxicity LD50 (Rabbit): > 5,000 mg/kg
Skin corrosion/irritation
Product: Remarks: No data available
Components: distillates (petroleum), hydrotreated light: Result: Mild skin irritation
Serious eye damage/eye irritation
Product: Remarks: No data available
Components: distillates (petroleum), hydrotreated light: Result: Mild eye irritation
Respiratory or skin sensitization: No data available
Germ cell mutagenicity: No data available Carcinogenicity: No data available
Reproductive toxicity: No data available STOT - single exposure: No data available
STOT - repeated exposure: No data available

SECTION 12: Ecological information

Ecotoxicity
Product: Toxicity to fish: Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates: Remarks: No data available
Toxicity to algae: Remarks: No data available
Toxicity to bacteria: Remarks: No data available
Components: distillates (petroleum), hydrotreated light
Toxicity to fish: NOEC (Fish): 0.083 mg/l Exposure time: 14 h
Persistence and degradability
Product: Biodegradability: Remarks: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available

SECTION 13: Disposal considerations

Waste from residues: The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

SECTION 14: Transport information

International Regulation
IATA-DGR
UN/ID No.: 3082 Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
(kerosene - unspecified) Class: 9 Packing group: III Labels: 9



MORCUT HT-5 SDS

Packing instruction (cargo aircraft): 964

IMDG-Code

UN number: 3082 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (kerosene - unspecified) Class: 9 Packing group: III Labels: 9

EmS Code: F-A, S-F

Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for product as supplied.

49 CFR: Not regulated as a dangerous good

TDG: Not regulated as a dangerous good

Special precautions for user: Not applicable

SECTION 15: Regulatory information

OSHA Hazards: No OSHA Hazards

The components of this product are reported in the following inventories:

DSL: On the inventory, or in compliance with the inventory

TSCA: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

IECSC: On the inventory, or in compliance with the inventory

EINECS: On the inventory, or in compliance with the inventory

AICS: On the inventory, or in compliance with the inventory

KECI: On the inventory, or in compliance with the inventory

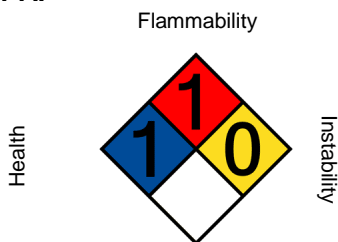
PICCS: On the inventory, or in compliance with the inventory

CLEAN WATER ACT: Under section 311 (b) (4) of this act, contamination of surface waters by petroleum products must be reported immediately to the National Response Center.

SECTION 16: Other information

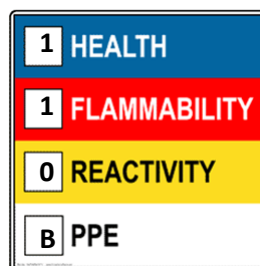
Further information

NFPA:



Special hazard.

HMIS III:



0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic



MORCUT HT-5 SDS

The information in this Safety Sheet was obtained from sources which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This safety sheet was prepared and is to be used only for this product. If the product is used as a component in another product, this safety sheet information may not be applicable.