

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Opticool™ HE

Product Code: Opticool™ HE

Intended Use of the Product

Use of the Substance/Mixture: Advanced, low viscosity immersion coolant use in crypto mining, data centers, and motor cooling.

Name, Address, and Telephone of the Responsible Party

Company

Soltex Inc. (Synthetic Oils & Lubricants of Texas)

4 Waterway Square Place, Suite 275

The Woodlands, TX 77380

(281)-587-0900

soltexinc.com

Emergency Telephone Number

Emergency Number : (800)-424-9300 (CHEMTREC); (281)-587-0900 (Other Safety Information)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification (GHS-US)

Asp. Tox. 1 H304

Inhalation Tox. 4 H332

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H304 - May be fatal if swallowed and enters airways.
H332 - Harmful if inhaled.

Precautionary Statements (GHS-US)

: P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P301+P310 - IF SWALLOWED: Immediately call a poison center or doctor.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.
P331 - Do NOT induce vomiting.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Carcinogenicity:

IARC

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

NTP

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

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ACGIH

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% (w/w)
Synthetic Hydrocarbon	Proprietary	90-100
Fatty Acid Tetra Esters	Proprietary	0-10
Additives	Proprietary	0-10

Note: Specific chemical identities and/or exact percentages have been withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

- General advice** : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
- If inhaled** : Move to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
- In case of skin contact** : If on skin, rinse well with water. If on clothes, remove clothes. If skin irritation persists, call a physician.
- In case of eye contact** : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
- If swallowed** : Keep respiratory tract clear. Do NOT induce vomiting. If symptoms persist, call a physician.

SECTION 5: FIRE-FIGHTING MEASURES

- Flash point** : 204 °C (399°F) Method: Cleveland Open Cup
198 °C (388°F) Method: Cleveland Closed Cup
- Unsuitable extinguishing media** : High volume water jet.
- Special protective equipment for fire-fighters** : Wear self contained breathing apparatus for fire fighting if necessary.
- Fire and explosion protection** : Normal measures for preventive fire protection.
- Hazardous decomposition products** : Carbon oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Use personal protective equipment. Ensure adequate ventilation.

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- Environmental precautions** : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up** : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling

- Advice on safe handling** : Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion** : Normal measures for preventive fire protection. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Storage

- Requirements for storage areas and containers** : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

- Respiratory protection** : Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. Air-Purifying Respirator for Dusts and Mists / P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection** : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection** : Safety glasses. Eye wash bottle with pure water.
- Skin and body protection** : Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate:. Protective suit. Safety shoes.
- Hygiene measures** : General industrial hygiene practice.
- Protective measures** : Wear suitable protective equipment. When using do not eat, drink or smoke.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state	: Liquid
Color	: Clear
Odor	: Slight Hydrocarbon

Safety data

Flash point	: 204 °C (399°F) Method: Cleveland Open Cup D-92 198°C (388°F) Method: Cleveland Closed Cup D-93
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Oxidation	: 1693 minutes, Method: D-2272
Autoignition temperature	: No data available
Viscosity, Kinematic	: 3.05 cSt (100°C), Method: D-445; 12.22 cSt (40°C), Method: D-445
Viscosity, Dynamic	: 2.55 cP (100°C), Method: D-7042; 10.21 cP (40°C), Method: D-7042
pH	: Not applicable
Fire point	: 226°C (439°F), Method: D-92
Pour point	: -37°C (-35°F): Method: D-97
Boiling point/boiling range	: >290°C (554°F), Method: D-1120
Vapor pressure	: No data available
Density	: 0.8288, 25°C (77°F), Method: D-4052
Specific gravity	: 0.8313, 25°C (77°F), Method: D-4052
Water solubility	: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-octanol/water	: No data available

SECTION 10: STABILITY AND REACTIVITY

Chemical stability	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
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Possibility of hazardous reactions

Conditions to avoid	: No data available.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Other data	: No decomposition if stored and applied as directed.

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SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50: >5 ml/kg Species: rat Sex: Not Specified
Acute inhalation toxicity	: LC50: 1.17 mg/l Exposure time: 4 h Species: rat Test atmosphere: dust/mist
Acute dermal toxicity	: LD50: > 3 g/kg Species: rabbit Sex: Not Specified
Skin irritation	: No skin irritation
Eye irritation	: No eye irritation
Sensitization	: Did not cause sensitization on laboratory animals.
Aspiration toxicity	: May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
Synthetic Hydrocarbon	: Carcinogenicity: Not classifiable as a human carcinogen. Mutagenicity: Contains no ingredient listed as a mutagen Teratogenicity: No toxicity to reproduction Reproductive toxicity: No toxicity to reproduction

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish

Synthetic Hydrocarbon	: LL50: > 1,000 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
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Toxicity to daphnia and other aquatic invertebrates

Synthetic Hydrocarbon	: EL50: > 1,000 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
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Toxicity to algae

Synthetic Hydrocarbon	: EL50: > 1,000 mg/l Exposure time: 72 h Species: Scenedesmus capricornutum (fresh water algae) static test Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Synthetic Hydrocarbon	: NOEC: 125 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Test substance: yes The product has low solubility in the test medium. An aqueous dispersion was tested.
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Elimination information (persistence and degradability)

Biodegradability	: Expected to be inherently biodegradable.
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Ecotoxicology Assessment

Results of PBT Assessment

Synthetic Hydrocarbon : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Additional ecological information : No data available

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

National legislation

SARA 311/312 Hazards : Acute Health Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

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SARA 302 Threshold Planning Quantity : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Ingredients : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

California Prop. 65 Ingredients : This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

Europe REACH : On the inventory, or in compliance with the inventory

United States of America TSCA : On the inventory, or in compliance with the inventory

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

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

New Zealand NZIoC : On the inventory, or in compliance with the inventory
Notification number: HSR002606

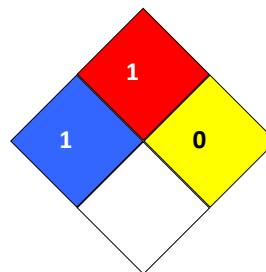
Japan ENCS : On the inventory, or in compliance with the inventory
Notification number: (6)-1109

Korea KECI : On the inventory, or in compliance with the inventory
Notification number: KE-09501

Philippines PICCS : On the inventory, or in compliance with the inventory
China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

NFPA Classification : Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0



Revision Date : 03/25/2025

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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The Woodlands, TX 77380
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.