



## SAFETY DATA SHEET

SDS:  
PHT0276AB

### Cenex® Heat Transfer Fluid

Issuing Date 07-19-2023

Revision Date 07-19-2023

Revision Number 2

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

**Product Name** Cenex® Heat Transfer Fluid

**Other means of identification**

**Product Code(s)** PHT0276AB

**Synonyms** No information available

**Recommended use of the chemical and restrictions on use**

**Identified uses** Lubricant

**Uses advised against** Consumer use

**Details of the supplier of the safety data sheet**

**Manufacturer**

CHS Inc.  
P.O. Box 64089  
Mail Station 525  
St. Paul, MN 55164-0089  
SDS Information 1-651-355-8445

**Emergency Telephone Number**

CHEMTREC: 1-800-424-9300 (NORTH AMERICA)  
+1-703-527-3887 (INTERNATIONAL)

#### 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 2
Aspiration toxicity	Category 1

**Label Elements**

**Emergency Overview**

**Signal Word** DANGER

**Hazard Statements**

Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways.

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**Appearance** colorless

**Physical state** Liquid

## Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

## Response

IF exposed or concerned: Get medical advice/attention.

## Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## Skin

None.

## Inhalation

None.

## Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

## Fire

None.

## Spill

None.

## Storage

Store locked up.

## Disposal

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

## Hazards not otherwise classified (HNOC)

None

- Causes mild skin irritation

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	90 - 100
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	68411-46-1	0.1 - 1
Benzaldehyde	100-52-7	0.1 - 1

The producer of "PHT0276AB" declares that it contains less than 3% DMSO extractable material by IP-346

## 4. FIRST AID MEASURES

### First Aid Measures

#### Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

**Inhalation** Consult a physician. If not breathing, give artificial respiration.

**Ingestion** Do NOT induce vomiting. Drink plenty of water.

### **Most important symptoms and effects, both acute and delayed**

**Symptoms** None known.

### **Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

**Flash Point** 193 °C - 379 °F

**Suitable Extinguishing Media** Water spray, Carbon dioxide (CO2), Foam, Dry chemical

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

**Specific Hazards Arising from the Chemical** Thermal decomposition can lead to release of irritating gases and vapors.

### **Explosion Data**

**Sensitivity to Mechanical Impact** Not impact sensitive.

**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

**Protective Equipment and Precautions for Firefighters** Wear self-contained breathing apparatus and protective suit.

### **NFPA**

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Do not touch or walk through spilled material. Remove all sources of ignition.

### **Environmental Precautions**

**Environmental Precautions** Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### **Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

**Methods for Cleaning up** Use personal protective equipment. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

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## Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. For personal protection see section 8.

## Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible products** Strong oxidizing agents. Strong acids. Strong bases.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Control parameters

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated heavy paraffinic	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 2500 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Eye protection not needed during typical product use conditions. Wear eye protection as appropriate when handling the bulk formulation.

**Skin and Body Protection** Long sleeved clothing. Protective gloves.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	colorless
Odor	Hydrocarbon-like
Odor threshold	No information available

### Property

### Values

Melting Point / Freezing Point	No data available
Boiling Point/Range	no data available
Flash Point	193 °C / 379 °F

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Upper flammability limit:	No data available
Lower Flammability Limit	No data available
Vapor pressure	No data available
Vapor Density	< 1 ( Air = 1 )
Specific Gravity	0.850
Water solubility	negligible
Partition Coefficient: n-octanol/water	no data available
Autoignition Temperature	No data available
Hyphen	-
Viscosity, kinematic	15.5 cSt @ 40°C

### 10. STABILITY AND REACTIVITY

<u>reactivity</u>	No information available
<u>Chemical stability</u>	Stable under recommended storage conditions
<u>Possibility of Hazardous Reactions</u>	None under normal processing
<u>Conditions to Avoid</u>	Heat, flames and sparks Contact with other chemicals
<u>Incompatible Materials</u>	Strong oxidizing agents. Strong acids. Strong bases.
<u>Hazardous Decomposition Products</u>	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke)

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	Contact with eyes may cause irritation.
<b>Skin Contact</b>	May cause irritation.
<b>Ingestion</b>	There is no data available for this product.

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	> 15 g/kg ( Rat ) > 24 g/kg ( Rat )	> 5000 mg/kg ( Rabbit )	= 2062 ppm ( Rat ) 4 h
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1	> 5000 mg/kg ( Rat )	-	-
Benzaldehyde 100-52-7	= 1292 mg/kg ( Rat )	> 1250 mg/kg ( Rabbit )	-

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

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<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>Target organ effects</b>	Respiratory system, Eyes, Skin.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 5000

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7		LC50> 5000 mg/L Oncorhynchus mykiss 96 h		EC50 > 1000 mg/L 48 h
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene 68411-46-1		LC50> 100 mg/L Danio rerio 96 h		
Benzaldehyde 100-52-7		LC50 10.6 - 11.8 mg/L Oncorhynchus mykiss 96 h LC50= 12.69 mg/L Oncorhynchus mykiss 96 h LC50 0.8 - 1.44 mg/L Lepomis macrochirus 96 h LC50 6.8 - 8.53 mg/L Pimephales promelas 96 h LC50= 7.5 mg/L Lepomis macrochirus 96 h	EC50 = 5.08 mg/L 15 min EC50 = 6.11 mg/L 5 min EC50 = 4.85 mg/L 30 min	EC50 = 50 mg/L 24 h

**Persistence and Degradability** No information available.

### Bioaccumulation

**Mobility** The product is insoluble and floats on water.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste Disposal Methods** Dispose of in accordance with local regulations

**Contaminated Packaging** Do not re-use empty containers. Empty containers should be taken to an approved waste

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handling site for recycling or disposal

Chemical name	California Hazardous Waste Status
Ethanol 64-17-5	Toxic Ignitable
Isopropyl alcohol 67-63-0	Toxic Ignitable
Diphenylamine 122-39-4	Toxic

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL/NDSL	Complies
NDSL	Complies
EINECS	Not determined
ELINCS	Not determined
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **EPCRA: Emergency Planning and Community Right-to-Know Act**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and

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40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
benzoic acid 65-85-0	5000 lb			X

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
benzoic acid 65-85-0	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

## U.S. State Right-to-Know Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical name	California Prop. 65
Ethanol - 64-17-5	Carcinogen Developmental

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7		X	X
Ethanol 64-17-5	X	X	X
Benzaldehyde 100-52-7	X	X	X
benzoic acid 65-85-0	X	X	X
Isopropyl alcohol 67-63-0	X	X	X
Diphenylamine 122-39-4	X	X	X

## NFPA

## 16. OTHER INFORMATION

Issuing Date 07-19-2023  
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Reason for revision General Information.

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**