



# SAFETY DATA SHEET

US OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Issuing Date 21-Apr-2023

Revision Date 18-Jul-2023

Revision Number 2

## 1. Identification

### Product identifier

**Product Name**

**Other means of identification:**

**Product Code(s):**

**Synonyms:** Engine oil, lubricant

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

**Recommended use:** Engine oil

**Restrictions on use:** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Pinnacle Oil Holdings, LLC.  
8175-B Allison Ave.  
Indianapolis, IN 46268  
317-875-9465  
www.pinnoil.com

#### Supplier Address

#### E-mail

sds@pinnoil.com

### Emergency telephone number

**Emergency telephone**

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

## 2. Hazard(s) identification

### Classification

This product is not considered hazardous by either the US 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) or the Canadian Workplace Hazardous Material Information System (WHMIS 2015).

### Label elements

#### **Hazard statements**

Not classified.

### Other information

No information available.

### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

**Synonyms** Engine oil, lubricant

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	<= 90.9	-	-
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	<= 10	-	-
Paraffin oils, petroleum, catalytic dewaxed heavy	64742-70-7	0.44 - 0.89	-	-
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	0.44 - 0.89	-	-
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	0.44 - 0.89	-	-
Phosphorodithioic acid, O,O-diisooctyl ester, zinc salt	28629-66-5	<= 0.61	-	-
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	2215-35-2	<= 0.25	-	-

### 4. First-aid measures

#### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	Remove to fresh air.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if symptoms occur.
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention if symptoms occur.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.

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

**Symptoms** None known.

**Effects of Exposure** None known.

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

**Note to physicians** Treat symptomatically.

### 5. Fire-fighting measures

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam.

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<b>Unsuitable extinguishing media</b>	High volume water jet.
<b>Specific hazards arising from the chemical</b>	None known based on information supplied.
<b>Hazardous combustion products</b>	Carbon oxides.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment as required.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Move containers from spill area.

**Methods for cleaning up** Wash spillages into an effluent treatment plant or proceed as follows: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from direct sunlight. Store away from incompatible materials. Keep away from food, drink and animal feeding stuffs. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

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

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

**Eye/face protection**                      Wear safety glasses with side shields (or goggles).

**Hand protection**                              Wear suitable gloves.

**Skin and body protection**                      Wear suitable protective clothing.

**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.

**Environmental exposure controls**              Prevent entry into waterways, sewers, basements or confined areas.

**General hygiene considerations**              Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing. Wash hands before eating, drinking or smoking.

## **9. Physical and chemical properties**

### **Information on basic physical and chemical properties**

**Appearance**

**Physical state**                              Liquid

**Color**    Amber

**Odor**    Mild Petroleum

**Odor threshold**                              No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>		No data available
<b>Melting point / freezing point</b>		No data available
<b>Initial boiling point and boiling range</b>		No data available
<b>Flash point</b>	> 220 °C / > 428 °F	
<b>Evaporation rate</b>		No data available
<b>Flammability</b>		No data available
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>		No data available
<b>Lower flammability or explosive limits</b>		No data available
<b>Vapor pressure</b>	< 0.1 mmHg	@ 25 °C
<b>Relative vapor density</b>		No data available
<b>Relative density</b>	0.85 - 0.88	
<b>Water solubility</b>	Insoluble in water	
<b>Solubility(ies)</b>		No data available
<b>Partition coefficient</b>		No data available
<b>Autoignition temperature</b>		No data available
<b>Decomposition temperature</b>		No data available
<b>Kinematic viscosity</b>	> 48 cSt	@ 40 °C, D445
<b>Dynamic viscosity</b>		No data available

### **Other information**

**Explosive properties**                              No information available.

**Oxidizing properties**                              No information available.

**Softening point**                                      No information available

**Molecular weight**                                      No information available

**VOC content**    No information available

**Liquid Density** No information available  
**Bulk density** No information available

## 10. Stability and reactivity

**Reactivity** None under normal use conditions.  
**Chemical stability** Stable under normal conditions.  
**Possibility of hazardous reactions** None under normal processing.  
**Conditions to avoid** Incompatible materials.  
**Incompatible materials** Oxidizing materials.  
**Hazardous decomposition products** Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

**Inhalation** Specific test data for the substance or mixture is not available.  
**Eye contact** Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation.  
**Skin contact** Specific test data for the substance or mixture is not available.  
**Ingestion** Specific test data for the substance or mixture is not available.

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

**Symptoms** None known.

### Acute toxicity

### Numerical measures of toxicity

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

**ATEmix (dermal)** > 5,000 mg/kg

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Distillates (petroleum), hydrotreated heavy paraffinic	> 15 g/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 2.18 mg/L ( Rat ) 4 h
Paraffin oils, petroleum, catalytic dewaxed heavy	> 15000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-
Distillates, petroleum, solvent-dewaxed light paraffinic	> 5000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	> 5399 mg/m <sup>3</sup> ( Rat ) 4 h
Distillates (petroleum), solvent-dewaxed heavy paraffinic	> 15000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	> 2400 mg/m <sup>3</sup> ( Rat ) 4 h
Phosphorodithioic acid, O,O-diisooctyl	= 2000 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	-

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
ester, zinc salt			
Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate)	2000 - 5000 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	> 2 mg/L ( Rat ) 1 h

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

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The classification listed below for the petroleum distillates in this product pertains to those that contain more than 3% DMSO extract as measured by IP 346. The petroleum distillates in this product do not meet that criteria to be classified as carcinogens.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	A2	Group 1	Known	X
Paraffin oils, petroleum, catalytic dewaxed heavy 64742-70-7	A2	Group 1	Known	X
Distillates, petroleum, solvent-dewaxed light paraffinic 64742-56-9	A2	Group 1	Known	X
Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0	A2	Group 1	Known	X

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## 12. Ecological information

### Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea

Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 72623-86-0	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Distillates, petroleum, solvent-dewaxed light paraffinic 64742-56-9	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Distillates (petroleum), solvent-dewaxed heavy paraffinic 64742-65-0	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) 2215-35-2	EC50: 1.0 - 5.0mg/L (96h, Pseudokirchneriella subcapitata)	LC50: >100mg/L (96h, Pimephales promelas) LC50: 25 - 50mg/L (96h, Pimephales promelas)	-	EC50: 4.0 - 6.0mg/L (48h, Daphnia magna)

**Persistence and degradability** No information available.

#### Bioaccumulation

#### Component Information

Chemical name	Partition coefficient
Phosphorodithioic acid, O,O-diisooctyl ester, zinc salt 28629-66-5	2.87
Zinc O,O',O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) 2215-35-2	2.21

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations, Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**California waste information** This product contains one or more substances that are listed with the State of California as a hazardous waste.

### 14. Transport information

**DOT** Not regulated

**TDG** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

### 15. Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture****International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**International Inventories**

Contact supplier for inventory compliance status

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Phosphorodithioic acid, O,O-diisooctyl ester, zinc salt - 28629-66-5	1.0
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) - 2215-35-2	1.0

**SARA 311/312 Hazard Categories**

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

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphorodithioic acid, O,O-diisooctyl ester, zinc salt 28629-66-5	-	X	-	-
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) 2215-35-2	-	X	-	-

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Distillates, petroleum, solvent-dewaxed light paraffinic 64742-56-9	-	X	-
Paraffin oils, petroleum, catalytic dewaxed heavy 64742-70-7	-	X	-
Phosphorodithioic acid, O,O-diisooctyl ester, zinc salt 28629-66-5	X	-	X
Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis (phosphorodithioate) 2215-35-2	X	-	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. Other information**

<b>NFPA</b>	Health hazards 0	Flammability 1	Instability 0	Special hazards -
<b>HMIS</b>	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

<b>Issuing Date</b>	21-Apr-2023
<b>Revision Date</b>	18-Jul-2023
<b>Revision Note</b>	Change in the mixture classification.
<b>Disclaimer</b>	

The information provided in this 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**