

SAFETY DATA SHEET



Revision date 03/25/2024

Revision Number 2

1. Identification

Product identifier

Product Name HYDRAULIC OIL HO-1

Other means of identification

Safety data sheet number 05067

Product Code(s) L0761-057, L0761-059, L0761-060, L0761-061, L0761-062, L0761-070, L0761-072, L0761-200, L0761-412

UN number or ID number Not applicable.

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use No information available

Restrictions on use No information available

Details of the supplier of the safety data sheet

Manufacturer Address

Lubriplate Lubricants Company Headquarters
129 Lockwood St.
Newark, NJ 07105
Midwest Office & Plant
1500 Oakdale Ave.
Toledo, OH 43605
419-691-2491
419-693-3806

Emergency telephone number

Emergency Telephone Chem-Tel 1-800-255 3924 (US & Canada only)
01-813-248-0585 (Outside US & Canada)

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified (HNOC)

Not applicable

Label elements**Hazard statements**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance Oily liquid transparent

Physical state Liquid

Odor Mineral oil

Other information

No information available.

3. Composition/information on ingredients**Substance**

Not applicable.

Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health

The product contains no substances which at their given concentration, are considered to be hazardous to health.

| Chemical name | CAS No. | Weight-% | Trade secret |
|--|------------|-----------|--------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 | 80 - 100% | * |
| Zinc alkyldithiophosphate | 68649-42-3 | 0.1 - <1% | * |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | 4259-15-8 | 0.1 - <1% | * |
| Methacrylate copolymer | - | 0.1 - <1% | * |
| Synthetic isoparaffinic hydrocarbon | - | 0.1 - <1% | * |
| 2,6-di-tert-butylphenol | 128-39-2 | NF | * |
| White mineral oil (petroleum) | 8042-47-5 | NF | * |
| Benzenesulfonic acid | 93820-57-6 | NF | * |
| Alkyl methacrylate | - | NF | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures**Description of first aid measures****Inhalation**

Remove to fresh air.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.
Consult a physician.

Skin contact

Wash skin with soap and water.

Ingestion

Rinse mouth.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical No information available.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters 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.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

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.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|--|--|
| Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7 | TWA: 5 mg/m ³ inhalable particulate matter excluding metal working fluids, highly & severely refined | TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³ | IDLH: 2500 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³ |

Appropriate engineering controls**Engineering controls**

Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment**Eye/face protection**

No special protective equipment required.

Skin and body protection

No special protective equipment required.

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.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

| | |
|----------------|--------------------------|
| Physical state | Liquid |
| Appearance | Oily liquid transparent |
| Color | amber |
| Odor | Mineral oil |
| Odor threshold | No information available |

| Property | Values | Remarks • Method |
|---|--------------------------------------|-------------------------------|
| pH | No data available | None known |
| Melting point / freezing point | 39 - 9 °C / 102.2 - 48.2 °F | -39 to -9°C/-34.6 to 15.8°F |
| Initial boiling point and boiling range | > 288 °C / 550.4 °F | >288°C (>550.4°F) |
| Flash point | 218 - 285 °C / 424.4 - 545.0 °F | None known |
| Evaporation rate | No data available | < 0.01 (butyl acetate = 1) |
| Flammability | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive limits | No data available | |
| Vapor pressure | <0.0013 kPa @ 20°C | None known |
| Relative vapor density | > 5 | None known |
| Relative density | 0.86 to 0.9 | None known |
| Water solubility | No data available Insoluble in water | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | 238 - 329 °C / 460.4 - 624.2 °F | 238 to 329°C/460.4 to 624.2°F |
| Decomposition temperature | | None known |

| | | |
|---------------------|---|------------|
| Kinematic viscosity | 29.07 to 447.8 cSt @ 40°C/104°F, 5.3 to 30.1 cSt @ 100°C/212°F | None known |
| Dynamic viscosity | No data available | None known |

Other information

| | |
|----------------------|--|
| Explosive properties | Not considered to be explosive |
| Oxidizing properties | Does not meet the criteria for classification as oxidising |
| 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 | No information available. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to avoid | None known based on information supplied. |
| Incompatible materials | None known based on information supplied. |
| Hazardous decomposition products | None known based on information supplied. |

11. Toxicological information**Information on likely routes of exposure**

| | |
|--------------|---|
| 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. |
| 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 | No information available. |
|----------|---------------------------|

Acute toxicity**Numerical measures of toxicity**

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

| | |
|-------------------------------|-----------------|
| ATEmix (oral) | 15,321.80 mg/kg |
| ATEmix (dermal) | 5,107.30 mg/kg |
| ATEmix (inhalation-gas) | 99,999.00 ppm |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l |
| ATEmix (inhalation-vapor) | 99,999.00 mg/l |

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|-------------------|-------------------------|-----------------|
| Distillates (petroleum), hydrotreated heavy paraffinic | > 15 g/kg (Rat) | > 5000 mg/kg (Rabbit) | - |

| | | | |
|--|----------------------|-------------------------|---|
| 64742-54-7 | | | |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8 | = 3100 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | - |
| 2,6-di-tert-butylphenol 128-39-2 | > 5000 mg/kg (Rat) | > 10 g/kg (Rabbit) | - |
| White mineral oil (petroleum) 8042-47-5 | > 5000 mg/kg (Rat) | - | - |

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 No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects 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) |
| Zinc alkyldithiophosphate 68649-42-3 | - | LC50: 1.0 - 5.0mg/L (96h, Pimephales promelas) LC50: 10.0 - 35.0mg/L (96h, Pimephales promelas) | - | EC50: 1 - 1.5mg/L (48h, Daphnia magna) |
| Zinc bis[O,O-bis(2-ethylhexyl)] | EC50: 1.0 - 5.0mg/L (96h, Pseudokirchneriella) | LC50: 10.0 - 35.0mg/L (96h, Pimephales) | - | EC50: 1 - 1.5mg/L (48h, Daphnia magna) |

| | | | | |
|---|--------------|--|---|---|
| bis(dithiophosphate) 4259-15-8 | subcapitata) | promelas) LC50: 1.0 - 5.0mg/L (96h, Pimephales promelas) | | |
| 2,6-di-tert-butylphenol 128-39-2 | - | - | - | EC50: =0.45mg/L (48h, Daphnia magna) |
| White mineral oil (petroleum) 8042-47-5 | - | LC50: >10000mg/L (96h, Lepomis macrochirus) | - | - |

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

| Chemical name | Partition coefficient |
|---|-----------------------|
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8 | 3.59 |
| 2,6-di-tert-butylphenol 128-39-2 | 4.5 |
| White mineral oil (petroleum) 8042-47-5 | 6 |

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.

14. Transport information

Note: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

DOT
UN number or ID number Not regulated
Proper shipping name Not applicable
Packing group Not applicable

IATA Not regulated

IMDG
Marine pollutant Not regulated
No

15. Regulatory information

International Inventories

TSCA Complies.

| | |
|----------------------|-----------|
| DSL/NDSL | Complies. |
| EINECS/ELINCS | Complies. |
| ENCS | Complies. |
| IECSC | Complies. |
| KECI | Complies. |
| PICCS | Complies. |
| AIIC | Complies. |
| NZIoC | Complies. |

Legend:**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**AIIC** - Australian Inventory of Industrial Chemicals**NZIoC** - New Zealand Inventory of Chemicals**US 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.

| Chemical name | SARA 313 - Threshold Values % |
|--|-------------------------------|
| Zinc alkyldithiophosphate - 68649-42-3 | 1.0 |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) - 4259-15-8 | 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 does not contain any substances regulated as 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 |
|---|-----------------------------|------------------------|---------------------------|----------------------------|
| Zinc alkyldithiophosphate 68649-42-3 | - | X | - | - |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8 | - | 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), hydrotreated heavy paraffinic 64742-54-7 | X | X | X |
| Zinc alkyldithiophosphate 68649-42-3 | X | - | X |
| Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8 | X | - | X |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

| | | | | |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| NFPA | Health hazards 0 | Flammability 1 | Instability 0 | Special hazards - |
| HMIS | 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 | Sk* | Skin designation |

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

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
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)
National Institute of Technology and Evaluation (NITE)
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 Library of Medicine's PubMed database (NLM PUBMED)
U.S. 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

Revision date 03/25/2024

Revision Note No information available.

Disclaimer

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