

## Safety Data Sheet

## Vacuum pump oil

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Report No.: MND230040QD\_CN(En)2/2

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Revision Date: 2025/01/03

\*Prepared according to GB/T 17519-2013 and GB/T 16483-2008

**1** Identification of the chemical and supplier**Product identifier**

Product Name	Vacuum pump oil
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

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

Relevant identified uses	Please consult manufacturer.
Uses advised against	This product is not suitable for consumption.

**Details of the supplier of the Safety Data Sheet**

Name of the company	SUZHOU HUIFENG LUBRICATING MATERIALS CO., LTD.
Address of the company	NO. 19, HESHI DEVELOPMENT ZONE, ZHITANG TOWN, CHANGSHU CITY, JIANGSU PROVINCE, CHINA
Post code	—
Telephone number	0512-52397633
Fax number	0512-52549338
E-mail address	hfsh@hflube.com

**Emergency phone number**

Emergency phone number	13310110900
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**2** Hazard(s) identification**Emergency overview**

Based on available data, no known hazards.

**Hazard classification according to GHS**

According to GB 30000 series standards, not classified as a hazardous chemical.

**GHS Label elements**

Hazard pictograms	Not applicable
Signal word	Not applicable

**Hazard statements**

Hazard statements	Not applicable
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## Precautionary statements

### ◆ Prevention

<b>Prevention</b>	Not applicable
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### ◆ Response

<b>Response</b>	Not applicable
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### ◆ Storage

<b>Storage</b>	Not applicable
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### ◆ Disposal

<b>Disposal</b>	Not applicable
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## Hazard description

### ◆ Physical and chemical hazards

	No information available
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### ◆ Health hazards

<b>Inhaled</b>	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
<b>Ingestion</b>	Accidental ingestion of the product may be harmful to the health of the individual.
<b>Skin Contact</b>	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
<b>Eye</b>	This product may cause temporary discomfort following direct contact with the eye.

### ◆ Environmental hazards

	Please refer to 12th chapter of SDS.
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## 3 Composition/information on ingredients

### Substance/mixture

	Mixture
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Component	CAS No.	EC No.	Concentration (wt, %)
hydrocarbon	64742-54-7	265-157-1	98
lubricant additives	2082-79-3	218-216-0	2

## 4 First-aid measures

### Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), consult a physician if feel uncomfortable.
<b>Skin contact</b>	Rinse and then wash skin with water and soap.
<b>Ingestion</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take

	precautions to protect themselves and prevent spread of contamination.
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### Most important symptoms, acute and delayed

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|---|--|
| 1 | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. |
|---|--|

### Advice for protecting the rescuer

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|---|--|
| 1 | Remove all sources of ignition and increase ventilation. |
| 2 | Avoid contact with skin and eyes.                        |
| 3 | Avoid inhalation of vapor or mist.                       |
| 4 | Use personal protective equipment including respirator.  |

### Special note to the doctor

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|---|--------------------------|
| 1 | Treat symptomatically.   |
| 2 | Symptoms may be delayed. |

## 5 Fire-fighting measures

### Extinguishing media

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|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | Use extinguishing media suitable for surrounding area.                 |
| <b>Unsuitable extinguishing media</b> | There is no restriction on the type of extinguisher which may be used. |

### Specific hazards arising from the substance or mixture

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|---|---|
| 1 | Development of hazardous combustion gases or vapor possible in the event of fire. |
| 2 | May expansion or decompose explosively when heated or involved in fire.           |

### Fire precautions and protective measures

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|---|---|
| 1 | As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover.   |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system.                         |

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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|---|---|
| 1 | Use personal protective equipment, do not breathe gas/mist/vapour/spray.  |
| 2 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 3 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.                                   |

### Environmental precautions

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|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided.       |

### Methods and materials for containment and cleaning up

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|---|--|
| 1 | Cut off the source of the leak as much as possible.  |
| 2 | Keep leaks in a ventilated place.  |
| 3 | Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding. |

4	Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

## 7 Handling and storage

### Handling

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.
4	Keep away from heat/sparks/open flames/ hot surfaces.

### Storage

1	Keep containers tightly closed.
2	Keep containers in a dry, cool and well-ventilated place.
3	Keep away from heat/sparks/open flames/hot surfaces.
4	Store away from incompatible materials and foodstuff containers.

## 8 Exposure controls/personal protection

### Control parameters

<b>Occupational Exposure limit values</b>	No relevant regulations
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#### ◆ Biological limit values

<b>Biological limit values</b>	No relevant regulations
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#### ◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 series standard Determination of toxic substances in workplace air.

### Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

### Personal protection equipment

<b>General requirement</b>	
<b>Eye protection</b>	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
<b>Hand protection</b>	In general situation, hand protection is not needed.
<b>Respiratory protection</b>	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
<b>Skin and body protection</b>	In general situation, skin and body protection are not needed.

## 9 Physical and chemical properties

### Physical and chemical properties

Appearance	Clear oily liquid
Odor	No pungent odor
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	-12
Initial boiling point and boiling range(°C)	280~560
Flash point(Closed cup, °C)	≥220
Evaporation rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	0.8631
Solubility	It is insoluble in water, soluble in most organic solvents such as benzene, and most fatty oils exce.
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	360
Decomposition temperature(°C)	No information available
Viscosity	No information available

## 10 Stability and reactivity

### Stability and reactivity

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
hydrocarbon	> 15000mg/kg(Rat)	> 5000mg/kg(Rabbit)	No information available

### Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
hydrocarbon	Not Listed	Not Listed
lubricant additives	Not Listed	Not Listed

## Others

Series Vacuum Pump Oil	
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Skin sensitization	Based on available data, the classification criteria are not met
Respiratory sensitization	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Reproductive toxicity(additional)	Based on available data, the classification criteria are not met

## 12 Ecological information

### Acute aquatic toxicity

Acute aquatic toxicity	No information available
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### Chronic aquatic toxicity

Chronic aquatic toxicity	No information available
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### Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
lubricant additives	High	High

### Bioaccumulative potential

Component	Bioaccumulative potential	Comments
lubricant additives	Low	BCF=12

### Mobility in soil

Component	Mobility in soil	Soil Organic Carbon-Water Partitioning Coefficient (Koc)
lubricant additives	Low	734400000

### Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
hydrocarbon	Not PBT/vPvB
lubricant additives	Not PBT/vPvB

## 13 Disposal considerations

### Disposal considerations

<b>Waste chemicals</b>	Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.
<b>Contaminated packaging</b>	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
<b>Disposal recommendations</b>	Refer to section waste chemicals and contaminated packaging.

## 14 Transport information

### Label and Mark

<b>Transporting Label</b>	Not applicable
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### IMDG-CODE

<b>IMDG-CODE</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### IATA-DGR

<b>IATA-DGR</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

<b>UN-ADR</b>	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### Others

<b>Methods of packing</b>	Packaging as recommended by manufacturer.
<b>Precautions for transport</b>	Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

## 15 Regulatory information

### International chemical inventory

Component	EC inventory	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
<b>hydrocarbon</b>	√	√	√	√	√	√	√	√	×
<b>lubricant additives</b>	√	√	√	√	√	√	√	√	√

[EC inventory] European Inventory of Existing Commercial Chemical Substances

[TSCA] United States Toxic Substances Control Act Inventory

[DSL] Canadian Domestic Substances List

[IECSC] China Inventory of Existing Chemical Substances

[NZIoC] New Zealand Inventory of Chemicals

[PICCS] Philippines Inventory of Chemicals and Chemical Substances

[KECI] Korea Existing Chemicals Inventory

[AIIC] Australian. Inventory of Industrial Chemical (AIIC) [ENCS]

Japan Inventory of Existing & New Chemical Substances

## Chinese chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
hydrocarbon	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
lubricant additives	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

- [A] Catalog of Hazardous Chemicals(2015 Edition), Notice 5<sup>th</sup> 2015, the former China State Administration of Work Safety together with the Ministry of Industry and Information Technology, etc.
- [B] List of Toxic Chemicals Restricted in China, Notice 60<sup>th</sup> 2019, the Ministry of Ecology and Environment, Ministry of Commerce, General Administration of Customs.
- [C] List of Ozone Depletion Chemicals Controlled to be Imported/Exported in China (First to Sixth batches) , Notice from 2000 to 2012, the former Ministry of Environmental Protection of PRC.
- [D] Catalog of Hazardous Chemicals for Priority Management (First and Second batches) , Notice 95<sup>th</sup>, 2011, Notice 12<sup>th</sup> 2013, China State Administration of Work Safety.
- [E] Catalog of Hazardous Chemicals for Environmental Management, Notice 33<sup>th</sup> 2014, The former Ministry of Environmental Protection.
- [F] List of Various Monitoring Chemicals, 52<sup>th</sup> 2020, the Ministry of Industry and Information Technology.
- [G] List of Priority Controlled Chemicals (the First batch), 83<sup>th</sup> 2017, the former Ministry of Environmental Protection, Ministry of Industry and Information Technology, the former National Health And Family Planning Commission.
- [H] Catalog of Specially Controlled Hazardous Chemicals (First Edition), 1<sup>st</sup> 2020, the Ministry of Emergency Management, Ministry of Industry and Information Technology, Ministry of Public Security, Ministry of Transport.
- [I] List of Toxic and Harmful Water Pollutants (First batch), 28<sup>th</sup> 2019, the Ministry of Ecology and Environment, National Health Commission.
- [J] Catalog of Highly Toxic Chemicals, Notice 142<sup>th</sup> 2003, the former Ministry of Health of P.R.China.
- [K] Dangerous Chemicals Directory Used to Manufacture Exploder (2017 Edition), Notice 11<sup>th</sup> May. 2017, Ministry of Public Security of P.R.China.
- [L] Catalog of Stupeficient and Psychotropic Substances(2013 Edition), Notice 230<sup>th</sup> 2013, China Food and Drug Administration.
- [M] Catalog of Classification and Varieties of Precursor Chemicals, 120<sup>th</sup> 2017, series of announcements issued by the Ministry of Public Security and other ministries and commissions.
- [N] Catalog of Import and Export Management of Precursor Chemicals, 7<sup>th</sup> 2006, the Ministry of Commerce.
- [O] International Verification of Precursor Chemicals Management Catalog, 8<sup>th</sup> 2006, the Ministry of Commerce, Ministry of Public Security.

Note:

- “√” Indicates that the substance included in the regulations.  
 “x” No data or not included in the regulations.

## 16 Other information

### Information on revision

Creation Date	2025/01/03
Revision Date	2025/01/03
Reason for revision	-

### Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/substancesearch/index.action>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

## Abbreviations and acronyms

CAS	Chemical Abstracts Service	UN	The United Nations
PC-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
PC-TWA	Time Weighted Average	IMDG-CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P <sub>ow</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

## Disclaimer

This Safety Data Sheet (SDS) was prepared according to GB/T 16483 and GB/T 17519. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.