

Version 1.0

Issue date: 05/02/2015

Revision date: 05/02/2015

SDS Record Number: CSSS-TCO-010-116250

Section 1 Identification of the substance/mixture and of the company/undertaking

Product identifier:

Identification on the label/Trade name: Vacuum Pump Oil - ISO 68

Additional identification: Not available

Identification of the product: See section 3

Index Number: Not available

REACH registration No.: Not available

Relevant identified uses of the substance and uses advised against:

Identified uses:

Vacuum Pump Oil - ISO 68 recommended for most rotary vane and rotary lobe vacuum pumps.

Uses advised against:

Not available

Details of the supplier of the safety data sheet:

Supplier(Manufacturer): SINOPEC LUBRICANT CO., LTD.

Address: No. 6 Anning Zhuang West Road, Haidian District, Beijing, P.R. China

Contact person(E-mail): csc.lube@sinopec.com

Telephone: 86-400-810-9886

Fax: 86-10-82410856

Emergency telephone Number:

86-400-810-9886 Only available during office hours (8:30a.m.-17:30p.m. Beijing Time Zone)

Available outside office hours? YES NO

Section 2 Hazards Identification

Classification of the substance/mixture:

GHS Classification Not classified

label elements:

Hazard Pictograms: No hazard pictogram is used.

Signal Word(S): No signal word is used.

Hazard Statement: Not applicable.

Precautionary statement: Not applicable.

Other hazards:

Not available.

Section 3 Composition/information on ingredients

Substance/Mixture: Mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Highly refined mineral oil	N/A	64742-44-5	265-146-1	90-98%
Additive	N/A	-	-	2-10%

Section 4 First aid measures

Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

In case of inhalation:

No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

In case of skin contact:

No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

In case of eyes contact:

No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

In case of ingestion:

No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.

Most important symptoms and effects, both acute and delayed:

The product is not classified as harmful to human health effect.

Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

Extinguishing media:

Suitable extinguishing media: Use water fog, foam, dry chemical or carbon dioxide to extinguish flames.

Unsuitable extinguishing media: Water.

Special hazards arising from the substance or mixture

In case of heat, fire and strong oxidants can lead to burning. Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes, nitrogen oxides, phosphate, certain metal oxides and other decomposition products, in the case of incomplete combustion.

Special fire fighting methods and special protective actions for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Provide adequate ventilation. Avoid skin and eye contact. Refer to section 8 of SDS for personal protection details.

For emergency responders: Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

Environmental Precautions: Do not allow material to be released to the environment without proper governmental permits.

Methods for Containment and Cleaning up: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill

as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Additional information:

Not applicable.

Section 7 Handling and storage

Precautions for safe handling:

Protective measures:

Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage, including any incompatibilities:

Do not store in open or unlabeled containers. Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures.

Specific end use(s):

Not applicable.

Section 8 Exposure Controls/Personal Protection

Control parameters:

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA:

Not Available

EMERGENCY LIMITS:

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
SINOPEC GREATWALL UTTO	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Highly refined mineral oil	Not Available	Not Available

Exposure controls:

Appropriate engineering controls:

Provide adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

Hand protection:

Use protective gloves which is chemically resistant to this material.

Body protection:

No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical

requirements and other substances in the workplace. Suggested materials for protective gloves include: Neoprene, Nitrile rubber.

Respiratory protection:

No respiratory protection is normally required. No respiratory protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of material. If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge. Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Thermal hazards:

Wear suitable protective clothing to prevent heat.

Environmental exposure controls:

Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

Information on basic physical and chemical properties:

Appearance:	Yellow to brown transparent oily liquid
Colour:	Yellow to brown
Odour:	Odorless or slight odor
Odour threshold:	Not available
pH:	Not available
Melting point/range (°C):	0 °C (Highly refined mineral oil)
Boiling point/range (°C):	> 280 °C (typ)
Flash point (°C):	242°C (open cup) (typ)
Evaporation rate:	Not available
Flammability limit - lower (%):	Not available
Flammability (solid, gas):	Not available
Ignition temperature (°C):	Not available
Upper/lower flammability/explosive limits:	Not available
Vapour pressure (40°C):	<0.5MPa(40°C)
Vapour density:	>1(air=1)
Density:	0.82 kg/l – 0.88 kg/l (20°C)
Bulk density (kg/m³):	Not available
Water solubility (g/l):	Insoluble
n-Octanol/Water (log Po/w):	> 6 (estimated value)
Auto-ignition temperature:	>260°C
Decomposition temperature:	Not available
Viscosity:	61.2 mm/s ² – 74.8 mm/s ² (40°C)
Explosive properties:	Non explosive
Oxidising properties:	Not oxidizing
Molecular Formula:	Not available
Molecular Weight:	Not available

Other information:

Surface tension:	Not available
Dissociation constant in water(pKa):	Not available
Oxidation-reduction Potential:	Not available
Specific gravity:	Not available

Section 10 Stability and reactivity

Reactivity:	The substance is stable under normal storage and handling conditions.
Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions:	Contact with strong oxidants can lead to burning.
Conditions to avoid:	Extreme heat and high energy sources of ignition and strong oxidizers.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes, nitrogen oxides, phosphate, certain metal oxides and other decomposition products, in the case of incomplete combustion.

Section 11 Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

LD50(Oral, Rat): > 5000 mg/kg bw

LD50(Dermal, Rabbit): > 5000 mg/kg bw

LC50(Inhalation, Rat): > 10000 mg/m³ bw

Skin corrosion/Irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: Not classified

STOT-repeated exposure: Not classified

Section 12 Ecological information

Toxicity: Highly refined mineral oil (CAS: 64742-44-5):

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LL50	> 100 mg/L	96h	Fish	OECD 203	N/A	N/A
LL50	> 10000 mg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

Persistence and degradability: This product is expected to be inherently biodegradable.

Bioaccumulative potential: Bioaccumulation is unlikely due to the very low water solubility of this product; therefore bioavailability to aquatic organisms is minimal.

predominant behavior.

Results of PBT&vPvB assessment: Not available.

Other adverse effects: Not available.

Section 13 Disposal considerations

Waste treatment methods: The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.

Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated
Transport hazard Class	Not regulated	Not regulated	Not regulated
Packaging group	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not regulated	Not regulated	Not regulated

Section 15 Regulation information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Highly refined mineral oil (64742-44-5) is found on the following regulatory lists	"Not Applicable"
--	------------------

Section 16 Other information

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

Author: Hangzhou CIRS Co., Limited **Website:** www.cirs-group.com **Tel:** 0571-87206555 **Email:** info@cirs-group.com