

Substances Safety Data Sheet

POWER STEERING OIL

According to the Global Harmonized System (GHS) standards

I. Goods and manufacturers Data

Item Name:	POWER STEERING OIL
Other Names:	-
Recommended Use and Restrictions on the Use:	Hydraulic oil
Name of Manufacturer or Supplier:	Ding Oil International trade Co., Ltd.
Address:	No.100-61, Fengren Rd., Fengshan Dist., Kaohsiung City 830, Taiwan
TEL:	+886-7-740-5126
FAX:	+886-7-740-5127

II. Hazard Identification Information

Items Hazard Classification:	-
Labeling Information:	-
GHS Classification:	
• Physical Hazards:	
Explosive	-
Flammable aerosol	-
Flammable liquids	-
Spontaneous combustion gases	-
Contact with water, emit flammable gases	-
Oxidizing liquids	-
• Health and Environmental Hazards:	
Acute Toxicity	Class 5
Skin Irritation	Class 3
Eye Irritation	Class 2B
Allergic Respiratory and Skin	-
Germ cell mutagenicity	-
Carcinogens	-

- Reproductive Toxicity -
 - Water Environmental Hazards:
Chronic Toxicity to Water Environment -
 - Other hazards:
Polycyclic aromatic extraction amount (DMSO), IP-346 (wt%): <3
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III. Components Identification Data

Mixture:

Chemical properties: Hydrocarbons

Hazardous ingredient name	Concentration (%)	CAS No.	EINECS No.
Paraffinic Distillate	99.9% ~ 90.0%	64742-55-8 ,64742-54-7	265-158-7 ,265-157-1
Hydraulic additive	0.1% ~ 10.0%		
Zinc alkyl dithiophosphate	<0.36%	Not provided	
Aryl phosphite	<0.03%	101-02-0	202-908-4
Calcium sulfonate	<0.03%	Not provided	
Petroleum naphtha	<0.01%	64742-94-5	265-198-5
p-Dodecylphenol	<0.01%	74499-35-7	
Phenol	<0.01%	108-95-2	203-632-7

IV. Aid Measures

Aid Methods of Different Contact Ways:

- Inhalation: Move poisoned people to a ventilated place with fresh air flowing, and observe whether he or she has side effects.
- Skin Contact: Wash it with soap and water. If it causes an irritation, immediate take poisoned people to hospital. Moreover, the Cloth should be cleaned before re-use.
- Eye Contact: Flush with plenty of water for at least 15 minutes and immediately take poisoned people to hospital for further treatment.
- Ingestion: Do not induce vomiting unless you are a medical staff. Please immediately take poisoned people to hospital.

The most important symptoms and reactions: None.

The Protection for Emergency Personnel: They should wear gloves, masks, protective glass;

After emergency, please clean the exposed skin with water and soap.

The Prompt for the Physician: Symptomatic treatment.

V. Fire Fighting Measures

Suitable Extinguishing Media: CO2, dry powder or foam.

Special hazards may be encountered when the fire-fighting: The water may cause the hot oil splashing, and the oil will float on the water. Gases or vapors may cause burning.

Special Fire Fighting Procedures: None.

Special protective equipment for firefighters: Firefighters should wear protective gear and breathing apparatus.

VI. Leakage Solution

Noted: Immediately stop the liquid leak, and clean the spilled liquid as possible.

Environmental precautions: Preventing water or soil contamination.

Methods for cleaning:

Small spill cleanup need to be used on appropriate methods, such as absorbent material or motor, to extract.

For large spills, remove contaminated materials depending on the related process as possible.

VII. Safe Disposal and Storage Methods

Disposal:

(1) Do not weld heat or drill on the container, and make the lid close. After the empty bucket fully heating, it is still dangerous.

(2) Try to maintain the proper temperature and good ventilation when using.

(3) Avoid contact with rain to prevent pollution.

Note: Do not put pressure on the empty barrel, or it may rupture due to an explosion.

Storage: Store in a well-ventilated place. If placed them under the high temperature, it will shorten the shelf life.

VIII. Exposed Precaution

Engineering controls:

You need special ventilation equipment in the operation under high pressure.

Control parameters:

Average allowable concentration of 8HR TWA	Average allowable concentration for a short time STEL	Maximum allowable concentration CEILING	Biological indicators BEIS
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5mg/m3	10mg/m3	-	-
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Personal protective equipment:

- Respiratory Protection: Wear breathing mask.
- Hand protection: Wear impermeable gloves to avoid long-term or frequent repeated contact.
- Eye Protection: Safety goggles for experiment or protective masks can be used.
- Skin and body protection: Wear airtight protective clothing to prevent skin prolonged or frequently repeated contact.

Hygiene measures: None.

IX. Physical and Chemical Properties

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HYDRAULIC OIL AWS46

Appearance:	Gold and clean	Odor:	Light oil flavor
Odor threshold:	None	Melting point:	None
PH:	None.	Boiling point / boiling range:	None
Flammability (solid, gas):	None	Flash Point:	214°C
Decomposition temperature:	None	Test Method:	Open Cup
Natural temperature:	None	Explosion limits:	None.
Vapor Pressure:	<0.1kPa	Vapor Density:	> 5 (air = 1)
Density:	0.87091 @ 15°C, g / cm3	Solubility:	Insoluble in water
Octanol / water partition coefficient (log Kow):	> 6 @ 20°C	evaporation rate:	None
Pour point:	-45°C 40°C	Viscosity:	40.39 cSt

X. Stability and Reactivity

Stability:	Stable
Under special conditions may jeopardize the security:	No
The situation should be avoided:	According to the storage position to make further breakdown of management.
Substances to be avoided:	Acids, oxidizers, halogens and halogen compounds.
Hazardous decomposition products:	not occur

XI. Toxicity data

Routes of exposure: inhalation, contact, ingestion.

Symptoms: eye irritation, skin irritation, respiratory irritation.

Oral toxicity - rat tolerance LD50 > 5g / kg (almost no toxicity)

Dermal toxicity - rabbit tolerance LD50 > 3g / kg (almost no toxicity)

Acute toxic: -

Chronic or long-term toxicity: No carcinogenic risk

XII. Ecological information

Eco toxicity: chronic toxicity to fish, NOEC > 5000mg / L (seven days) -IUCLID data

chronic toxicity to aquatic invertebrates, NOEC = 552mg / L (seven days) -IUCLID data

Persistence and degradability: -

Bioaccumulation: -

Mobility in soil: -

Other adverse effects: -

XIII. Waste Disposal Method

Put the contained substance into the disposable container, and discard it depending on relevant regulations.

XIV. Transport Information

UN No.: -

UN Shipping Name: -

Transport Hazard Classification: -

Packaging Category: -

Marine pollutant (Yes / No): No.

Special delivery methods and precautions: Keep container closed when not in use to prevent spillage or leakage.

XV. Regulatory Information

Applicable Regulations:

1. Hazards and hazardous materials Liberal rule.
 2. Hazards and hazardous materials labeling and Liberal rule.
 3. The specific chemical hazard prevention standards.
 4. Rules labor safety and health facilities.
 5. The organic solvent poisoning preventive rules.
 6. Labor jobs in ambient air standard allowable concentration of harmful substances.
 7. Waste Disposal Act.
 8. Soil and Groundwater Pollution Remediation Act.
 9. Road traffic safety rules.
 10. Road transport dangerous goods regulations.
 11. Clear the cause of waste storage and treatment facility standards.
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XVI. Other Data

References:

1. *Toxic and Hazardous Chemicals Handbook (Second Edition)*.
2. *The toxic effects of chemical substances registration (National Institute for Occupational Safety and Health Association)*.
3. *Classification and Labeling of Chemicals Global Harmonized System (Safety and Health Technology Center)*.
4. *Material Safety Data additives*.

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