

## Section 1. Identification

<b>GHS product identifier</b>	Hydraulic Oil 68
<b>Product code</b>	460935-CN04
<b>SDS no.</b>	460935
<b>Use of the substance/preparation</b>	Hydraulic fluid For specific application advice see appropriate Technical Data Sheet or consult our company representative.
<b>Manufacturer</b>	
<b>Supplier</b>	BP (China) Industrial Lubricants Co., Ltd. 19-22F, Youyou International Plaza No. 76 Pujian Rd. Shanghai P.R.C. , 200127 Tel: +86 21 38605888
<b>EMERGENCY TELEPHONE NUMBER</b>	Carechem: +86 10 5100 3039 (24 hours)

## Section 2. Hazards identification

<b>GHS Classification</b>	Not regulated.
<b>Routes of entry</b>	Dermal contact. Eye contact. Inhalation. Ingestion.
<b>GHS label elements</b>	
<b>Hazard statements</b>	No known significant effects or critical hazards.
<b>Precautionary statements</b>	
<b>Prevention</b>	Not applicable.
<b>Response</b>	Not applicable.
<b>Storage</b>	Not applicable.
<b>Disposal</b>	Not applicable.
<b>Other hazards which do not result in classification</b>	Defatting to the skin.

## Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	Mixture
Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.	

<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
Base oil - unspecified	50 - 100	Varies

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

<b>Inhalation</b>	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Obtain medical attention if symptoms occur.
<b>Ingestion</b>	Wash out mouth with water. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Obtain medical attention if symptoms occur.
<b>Skin contact</b>	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur.
<b>Eye contact</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

### Indication of immediate medical attention and special treatment needed, if necessary

<b>Specific treatments</b>	Not available.
<b>Notes to physician</b>	<p>Treatment should in general be symptomatic and directed to relieving any effects.</p> <p>Note: High Pressure Applications Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency. Injuries may not appear serious at first but within a few hours tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.</p>
<b>Protection of first-aiders</b>	No action shall be taken involving any personal risk or without suitable training.

## Section 5. Fire-fighting measures

### Extinguishing media

<b>Suitable</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	Do not use water jet.
<b>Specific hazards arising from the chemical</b>	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Special precautions for fire-fighters</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	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

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see section 8).

### Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

#### Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

### Conditions for safe storage

Store in accordance with local regulations. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

Ingredient name	Exposure limits
Base oil - unspecified	<b>ACGIH (United States).</b> STEL: 10 mg/m <sup>3</sup> 15 minute(s). Form: Mineral oil, mist TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Mineral oil, mist

### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### Appropriate engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

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## Section 8. Exposure controls/personal protection

<b>Hygiene measures</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Respiratory protection</b>	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Eye protection</b>	Safety glasses with side shields.
<b>Skin protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Section 9. Physical and chemical properties

### General information

#### Appearance

<b>Physical state</b>	Liquid.
<b>Colour</b>	Yellow.
<b>Odour</b>	Oily.

### Important health, safety and environmental information

<b>Flash point</b>	Closed cup: 220°C (428°F) [Pensky-Martens.]
<b>Auto-ignition temperature</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Explosion limits</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Volatility</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Critical temperature</b>	Not available.
<b>Oxidising properties</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>Viscosity</b>	Kinematic: 68 mm <sup>2</sup> /s (68 cSt) at 40°C Kinematic: 6.8 mm <sup>2</sup> /s (6.8 cSt) at 100°C
<b>pH</b>	Not available.
<b>Boiling point / range</b>	Not available.
<b>Melting point / range</b>	Not available.
<b>Drop Point</b>	Not available.
<b>Relative Density</b>	Not available.
<b>Density</b>	881 kg/m <sup>3</sup> (0.881 g/cm <sup>3</sup> ) at 15°C
<b>Solubility</b>	insoluble in water.
<b>Solubility at room temperature (g/l)</b>	Not available.
<b>Dispersibility properties</b>	Not available.

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## Section 9. Physical and chemical properties

Partition coefficient  
(LogKow)

Not available.

## Section 10. Stability and reactivity

Chemical stability

The product is stable.

Possibility of hazardous  
reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

Prolonged exposure to elevated temperature

Incompatible materials

No specific data.

Hazardous decomposition  
products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on the likely routes of exposure

Inhalation

No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

Skin contact

Defatting to the skin. May cause skin dryness and irritation.

Eye contact

No known significant effects or critical hazards.

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

Inhalation

No specific data.

Ingestion

No specific data.

Skin

Adverse symptoms may include the following:  
irritation  
dryness  
cracking

Eyes

No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Potential chronic health effects

General

No known significant effects or critical hazards.

Inhalation

No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

Skin contact

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Eye contact

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Developmental effects

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Other information

Not available.

## Section 12. Ecological information

**Environmental effects** No known significant effects or critical hazards.

**Other adverse effects** No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
IATA Class	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-

PG\* : Packing group

### China Transportation Information

**Dangerous goods code** Not applicable.

**UN number** Not regulated.

**Package mark** Not applicable.

**Packaging** Not applicable.

**Matters needing attention for transportation** Ensure that any additional local government transport conditions are met

## Section 15. Regulatory information

### Regulation according to other foreign laws

**Europe inventory** All components are listed or exempted.

**United States inventory (TSCA 8b)** At least one component is not listed.

**Australia inventory (AICS)** At least one component is not listed.

**Canada inventory status** At least one component is not listed.

**China inventory (IECSC)** All components are listed or exempted.

**Japan inventory (ENCS)** At least one component is not listed.

**Korea inventory (KECI)** All components are listed or exempted.

**Philippines inventory (PICCS)** All components are listed or exempted.

### Label requirements

Rules of Safety Management Concerning Chemical Dangerous Goods Classification and Labeling of Commonly-used Dangerous Chemical Goods

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## Section 16. Other information

### History

<b>Date of issue/Date of revision</b>	18/12/2009.
<b>Date of previous issue</b>	No previous validation.
<b>Prepared by</b>	Product Stewardship

▣ Indicates information that has changed from previously issued version.

### Notice to reader

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