# SAFETY DATA SHEET



## 1. Identification of the substance/preparation and company/undertaking

Product name Biohyd SE-S 46

400947 SDS no Hydraulic fluid Use of the

substance/preparation For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

Castrol BP Petco Ltd. **Supplier** 

7 th Floor, Central Plaza Office Building

17 Le Duan Street, District 1

HCMC, Vietnam Tel: 84-8-38219596 / 38219153 Fax: 84-8-38219603 / 38219152

**Emergency telephone** 

Carechem: +65 3158 1074 (24 hours)

number Code

400947-DE15

# Composition/information on ingredients

Chemically modified base oil Proprietary performance additives.

This product does not contain any hazardous ingredients at or above regulated thresholds.

#### Hazards identification

This preparation is not classified as dangerous.

Physical/chemical hazards Not classified as hazardous. **Health hazards** Not classified as hazardous **Additional hazards** Note: High Pressure Applications

Injections through the skin resulting from contact with the product at high pressure constitute a major

medical emergency.

See 'Notes to physician' under First-Aid Measures, Section 4 of this Safety Data Sheet.

**Effects and symptoms** 

No significant health hazards identified. **Eyes** Skin No significant health hazards identified. Inhalation No significant health hazards identified. Ingestion No significant health hazards identified.

### First-aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical

attention if irritation occurs

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and Skin contact

shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if

irritation develops

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth Ingestion

to an unconscious person. If potentially dangerous quantities of this material have been swallowed,

call a physician immediately.

Treatment should in general be symptomatic and directed to relieving any effects. Notes to physician

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.

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#### 5. Fire-fighting measures

Extinguishing media

Suitable In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

Combustion products may include the following:

Not suitable Do not use water iet.

**Hazardous decomposition** 

products

carbon oxides

None identified.

sulfur oxides

Unusual fire/explosion

**Protection of fire-fighters** 

**Environmental precautions** 

This material is not explosive as defined by established regulatory criteria.

hazards

Special fire-fighting

procedures

Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout

gear.

#### Accidental release measures

**Personal precautions** 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)

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).

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.

**Small spill** Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in

an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### 7. Handling and storage

Handling Wash thoroughly after handling. Avoid strong oxidisers.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

Not suitable Prolonged exposure to elevated temperature.

### Exposure controls/personal protection

Ingredient name Occupational exposure limits

ACGIH (United States). Base oil - unspecified

STEL: 10 mg/m3 15 minute(s). Form: Mineral oil, mist TWA: 5 mg/m³ 8 hour(s). Form: Mineral oil, mist

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier.

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Occupational exposure

controls

**Hands** 

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of

vapours below their respective occupational exposure limits.

**Hygiene measures** 

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.

Personal protective equipment

Respiratory system Skin and body

None required. However, use of adequate ventilation is good industrial practice.

None required; however, use of protective clothing is good industrial practice.

Wear protective gloves if prolonged or repeated contact is likely.

Chemical-resistant gloves. Recommended: Nitrile gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the

working conditions.

Safety glasses with side shields. **Eyes** 

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## 9. Physical and chemical properties

Physical stateLiquid.ColourYellow.OdourOily.

Flash point

Open cup: 218°C (424.4°F) [Cleveland.]

Viscosity

Kinematic: 46 mm²/s (46 cSt) at 40°C

Kinematic: 8.14 mm²/s (8.14 cSt) at 100°C

Pour point -33 °C

**Density** 914 kg/m³ (0.914 g/cm³) at 15°C

**Solubility** insoluble in water.

Partition coefficient

(LogKow)

>3

## 10 . Stability and reactivity

**Stability** The product is stable.

**Conditions to avoid** Keep away from heat, sparks and flame.

Materials to avoid Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition

products

carbon dioxide carbon monoxide sulfur oxides

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

produced.

## 11. Toxicological information

Acute toxicity Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

Decomposition products may include the following materials:

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure

may lead to dermatitis.

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause

nausea and diarrhoea.

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from

thermal decomposition products occurs.

**Chronic toxicity** 

Carcinogenic effects No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by

ACGIH, the International Agency for Research on Cancer (IARC) or the European Commission (EC).

#### 12. Ecological information

Persistence/degradability

Mobility

The biodegradability of this material has not been determined. Spillages may penetrate the soil causing ground water contamination.

Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Other ecological information Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer

could also be impaired.

## 13. Disposal considerations

Disposal considerations / Waste information

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.

#### 14. Transport information

International transport regulations

Not classified as dangerous for transport (IMDG, ICAO/IATA)

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## 15 . Regulatory information

**European Union - Label requirements** 

Risk phrases This product is not classified as hazardous under applicable regulations.

Other regulations

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

(TSCA 8b)

Australia inventory (AICS)
Canada inventory
China inventory (IECSC)
All components are listed or exempted.

(PICCS) Vietnam

Toxic classification (TCVN

Not classified as hazardous.

3164-79)

#### 16. Other information

History

Date of issue/ Date of

20 January 2010

revision

Date of previous issue 14 November 2007

Prepared by Product Stewardship

Notice to reader

✓ Indicates information that has changed from previously issued version.

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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