



SAFETY DATA SHEET

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Supersedes date:	2019-11-18	Revision:	2019-11-18
Product No.:		SDS-ID:	HK-EN/1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1.Product identifier

Product name: GulfSea BD Hydraulic Oil 32, 46, 68, 100

Container size: -

1.2.Relevant identified uses of the substance or mixture and uses advised against

Application: Biodegradable hydraulic oil.

Identified use(s): Sector of use
SU2b - Offshore industries.
SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites.

Product Category
Hydraulic Fluids.
PC24 - Lubricants, greases, release products.

Process Categories
PROC1 - Use in closed process, no likelihood of exposure.
PROC2 - Use in closed, continuous process with occasional controlled exposure.
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities.
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities.
PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing).

Environmental Release Categories
ERC7 - Industrial use of substances in closed systems.

1.3.Details of the supplier of the safety data sheet

Supplier: Gulf Marine Pte. Ltd.
37 Tuas Road,
Singapore 638503
Tel: +65 6592 0120
Email: sds@gulf-marine.com

1.4.Emergency telephone number

Emergency telephone: Tel: +65 6592 0120



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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP: Not classified.

2.2. Label elements

The substance/mixture does not meet the criteria for classification and labelling.

2.3. Other hazards

PBT/vPvB: Not applicable.

Other: Prolonged or repeated contact with skin may cause redness, itching, irritation, eczema, skin cracking and oil acne. The harmful effects may increase in used oil.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Mineral oil and additives (DMSO<3% (IP 346)

No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Rinse mouth with water. Drink 1-2 glasses of water. Do not induce vomiting. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: Defatting, drying and cracking of skin.

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically. If swallowed, especially in large quantities: Get medical attention.



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SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, harmful vapours/gases may be formed. Fire in closed areas should only be extinguished by trained personnel.

5.3. Advice for fire-fighters

Protective equipment for fire-fighters: Evacuate personnel from immediate vicinity. Wear self contained breathing apparatus and full personal protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: If leakage cannot be stopped, evacuate area. Mark the spillage. Avoid inhalation of oil mist and contact with skin and eyes. Keep public away from danger area. In case of spills, beware of slippery floors and surfaces.

Protective equipment: Put on protective equipment before entering danger area.

6.2. Environmental precautions

Environmental precautions: Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Stop leak if possible without risk. Soak up with inert absorbent material.
Large Spillages: Stop leak if possible without risk. Dam and absorb spillages with sand, earth or other non-combustible material.

6.4. Reference to other sections

References: For personal protection, see section 8. For waste disposal, see section 13.



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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Observe good chemical hygiene practices. Avoid inhalation of oil mist and contact with skin and eyes. Avoid prolonged and repeated contact with oil, particularly used oil. Wash hands before breaks and before smoking, eating or drinking.

Technical measures: Use work methods which minimise oil mist production. Do not smoke or use open fire or other sources of ignition.

Technical precautions: When working with heated oil, mechanical ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: Store in tightly closed original container in a well-ventilated place. Containers, which are opened, must be carefully resealed and kept upright to prevent leakage. Ensure that the container is undamaged and has a proper label. Use appropriate containment to avoid environmental contamination.

Storage conditions: Store in tightly closed original container in a well-ventilated place. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Specific use(s): Lubricant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No occupational exposure limit assigned.

DNEL/PNEC: DNEL: Not available.
PNEC: Not available.

8.2. Exposure controls

Engineering measures: Provide adequate ventilation and minimise the risk of inhalation of vapours and oil mist. Mechanical ventilation may be required.

Respiratory equipment: In case of inadequate ventilation use suitable respirator. Use respiratory equipment with gas filter, type A1. If the product is heated under manual handling, use suitable mask with filter A1P2 or A2P2.

Hand protection: Nitrile gloves are recommended. If signs of wear and tear are noticed then the gloves should be replaced. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Wear approved, tight fitting safety glasses where splashing is probable.

Skin protection: Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures: Wash hands after handling. Observe good chemical hygiene practices. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Liquid.
Colour: Yellow.
Odour: Characteristic.
Odour threshold: Not available.
pH: Not applicable.
Melting point / freezing point: Not available.
Boiling point: Not available.
Flash point: >170°C [ASTM D92.]
Evaporation rate: Not available.
Flammability (solid, gas): Not applicable.
Explosion limits: Not available.
Vapour pressure: Not available.
Vapour density: Not available.
Relative density: ~0.89 (15°C)
Solubility: Emulsifiable in water.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): Not available.
Decomposition temperature (°C): Not available.
Viscosity: 32 - 100 mm²/s (40 °C)

Explosive properties: Non-explosive
Oxidising properties: Not applicable.

9.2. Other information

Other data: Solvent content: 0.0



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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: Not reactive.

10.2. Chemical stability

Stability: Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions: None under normal conditions.

10.4. Conditions to avoid

Conditions/materials to avoid: Heat, sparks, flames.

10.5. Incompatible materials

Incompatible materials: Strong oxidising substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: Hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation: Inhalation of oil mist or vapours formed during heating of the product may irritate the respiratory system and provoke throat irritation and coughing.

Skin contact: Prolonged or repeated contact with used oil may cause serious skin diseases, such as dermatitis.

Eye contact: May cause temporary eye irritation.

Ingestion: Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis.

Specific effects: Used oil may contain harmful contaminants.

Toxicological data: Skin sensitisation: No sensitising effects known.

Mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive Toxicity: No information available.

Teratogenicity: No information available.

STOT - Single exposure, Not available.

STOT - Repeated exposure, Not available.

Aspiration hazard: Not available.



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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity: Not harmful to aquatic organisms. LC/EC50 value >1000 mg/l

12.2. Persistence and degradability

Degradability: Biodegradable. OECD 301B

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: Not known.

12.5. Results of PBT and vPvB assessment

PBT/vPvB: Not applicable.

12.6. Other adverse effects

Other adverse effects: Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste is classified as hazardous waste. Dispose of waste and residues in accordance with local authority requirements.

Waste from residues: EWC-code: 13 01 12

Contaminated packaging: Disposal through approved facilities is recommended.



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SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

UN-No: Not regulated.

14.2. UN proper shipping name

Proper Shipping Name: Not regulated.

14.3. Transport hazard class(es)

Class: Not regulated.

14.4. Packing group

PG: Not regulated.

14.5. Environmental hazards

Marine pollutant: Not regulated.

Environmentally Hazardous substance: Not regulated.

14.6. Special precautions for user

Special precautions: Not regulated.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: Not regulated.

SECTION 15: REGULATORY INFORMATION

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

National regulation: Singapore Standard SS 586: Part 2 : 2014; Globally harmonised system of classification and labelling of chemicals - Singapore's adaptations.
Singapore Standard SS 586: Part 3 : 2014; Preparation of safety data sheets (SDS).
Guidelines on prevention and control of chemical hazard.

15.2. Chemical Safety Assessment

CSA status: No information available.



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SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Handling of used oils:

Protect health - avoid prolonged and repeated skin contact. Wash with soap and water. Protect the environment
- do not pollute drains, water courses or the soil. Contact your local authority for any used oil disposal instructions.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.
