



SAFETY DATA SHEET

Product name: GulfSea BD Gear Oil 68, 100, 150
Supersedes
date: P/N-no.:

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Revision: 2019-11-18
SDS-ID: HK-EN/1.0

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

Product identifier

Product name: GulfSea BD Gear Oil 68, 100, 150
Container size: -

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

Application: Biodegradable gear oil.

Details of the supplier of the safety data sheet

Supplier: Gulf Oil Marine Ltd.
28/F, Unit 2802 Citicorp Centre,
18 Whitfield Road,
Causeway Bay,
Hong Kong
Tel: +852 36930568
Fax: +852 37489960
sds@gulf-marine.com

Emergency telephone number

Emergency telephone: Tel: +852 36930568

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS: Not classified.

Label elements

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

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

Mixtures

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

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

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SECTION 4: FIRST AID MEASURES

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 these instructions.

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

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment

needed

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

SECTION 5: FIREFIGHTING MEASURES

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.

Special hazards arising from the substance or mixture

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

Advice for firefighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

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.

Methods and material for containment and cleaning up

Spill Cleanup Methods: 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.

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

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 minimize 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.

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.

Specific end Use(s)

Specific Use(s): Lubricant.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
-	Oil mineral, mist	-	5 mg/m ³	TWA	-	OSHA
-	Mineral oil, excluding metal working fluids (pure, highly and severely refined), inhalable particulate matter	-	5 mg/m ³	TWA	A4	ACGIH

Notes: A4: Not Classifiable as a Human Carcinogen.

Exposure controls

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors and oil mist.

Respiratory equipment: Not required under normal conditions of use. If the product is heated under manual handling, use NIOSH- approved respiratory protection/breathing apparatus.

Hand protection: Oil resistant gloves. 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

Information on basic physical and chemical properties

Appearance: Liquid.
Form: Oily.
Color: Light yellow.
Odor: Aromatic.
Odor threshold: Not available.
pH: Not applicable.
Melting point / freezing point: Not available.
Boiling point: Not available.
Flash point: > 200°C / 480°F
Evaporation rate: Not available.
Flammability (solid, gas): Not applicable.
Explosion limits: Not available.
Vapor pressure: Not available.
Vapor density: Not available.
Relative density: 0.91-0.93 (15°C / 59°F)
Solubility: Emulsifiable in water.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): Not available.
Decomposition temperature (°C): Not available.
Viscosity: 68 - 150 mm²/s (40 °C)

Explosive properties: Non-explosive
Oxidizing properties: Not applicable.
Other information
Other data: Solvent content: 0.0

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SECTION 10: STABILITY AND REACTIVITY

Reactivity

Reactivity: Not reactive.

Chemical stability

Stability: Stable under normal temperature conditions.

Possibility of hazardous reactions

Hazardous Reactions: None under normal conditions.

Conditions to avoid

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

Incompatible materials

Incompatible materials: Strong oxidizing substances.

Hazardous decomposition products

Hazardous decomposition products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

STOT - Single exposure: Based on available data, the classification criteria are not met.

STOT - Repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Inhalation: Inhalation of oil mist or vapors 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.

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SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity: Not harmful to aquatic organisms. Expected LC/EC50 value >100 mg/l

Persistence and degradability

Degradability: Biodegradable. OECD 301B

Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil

Mobility: Not known.

Results of PBT and vPvB assessment

PBT/vPvB: Not applicable.

Other adverse effects

Other adverse effects: Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

Contaminated packaging: Disposal through approved facilities is recommended.

SECTION 14: TRANSPORT INFORMATION

The product is not regulated as dangerous goods under IMDG Code, IATA-DGR and ADR/RID.

UN number

UN-No: Not regulated.

UN proper shipping name

Proper Shipping Name: Not regulated.

Transport hazard class(es)

Class: Not regulated.

Packing group

PG: Not regulated.

Environmental hazards

Marine pollutant: Not regulated.

Environmentally Hazardous substance: Not regulated.

Special precautions for user

Special precautions: Not regulated.

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

Transport in bulk: Not regulated.

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SECTION 15: REGULATORY INFORMATION

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.

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.
