



Marine

SAFETY DATA SHEET

Product name:	GulfSea Hyperbar CS 2	Page:	1/8
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 Hyperbar CS 2

Container size: -

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

Application: Lubricating grease.

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

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

GHS: The product is 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 used grease may cause serious skin diseases, such as dermatitis. The harmful effects may increase in used grease.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Mineral oil and additives

Only classified substances above threshold limits or substances with an exposure limit are shown.



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GHS:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
2-5	10043-35-3	233-139-2	-	Boric acid	Repr. 1B;H360	
0.5-1.5	9003-29-6	500-004-7	-	Polybutene	Skin Irrit. 2;H315 Asp. Tox. 1;H304	
0.5-1.5	26780-96-1	500-051-3	-	1,2-Dihydro-2,2,4-trimethylquinoline, oligomers	Aquatic Chronic 3;H412	
<1	68649-42-3	272-028-3	-	Zinc dialkyl dithiophosphate	Skin Irrit. 2;H315 Eye Dam. 1;H318 Aquatic Chronic 2;H411	
<1	111-76-2	203-905-0	-	2-Butoxyethanol	Acute Tox. 4;H332 Acute Tox. 4;H312 Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315	
<1	1305-62-0	215-137-3	-	Calcium dihydroxide	Skin Irrit. 2;H315 Eye Dam. 1;H318	
<1	64-19-7	200-580-7	-	Acetic acid	Flam. Liq. 3;H226 Skin Corr. 1A;H314	B

Notes: DMSO-content < 3%
SCL: Specific Concentration Limit

Reference: The full text for all hazard statements is displayed in section 16.

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 at least 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 a few glasses of water or milk. Do not induce vomiting. Get medical attention if any discomfort continues.

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.



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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 firefighters

Protective equipment for fire-fighters: Evacuate personnel from immediate vicinity. Self-contained breathing apparatus. Wear full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Mark the spillage. In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Environmental precautions: Do not contaminate water sources or sewer.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Dam and absorb spillages with sand, earth or other non-combustible material.

6.4. Reference to other sections

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

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 grease, particularly used grease. 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 grease, mechanical ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: Ensure that the container is undamaged and has a proper label.

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.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. 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>
64-19-7	Acetic acid	-	10 ppm	25 mg/m3	PEL (Long Term)	-	
		-	15 ppm	37 mg/m3	PEL (Short Term)	-	
1305-62-0	Calcium hydroxide	-		5 mg/m3	PEL (Long Term)	-	
-	Oil mist, -mineral	-		5 mg/m3	PEL (Long Term)	-	
		-		10 mg/m3	PEL (Short Term)	-	

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

8.2. Exposure controls

Engineering measures: Provide adequate ventilation. Minimize the risk of inhalation of vapours from heated grease.

Respiratory equipment: No specific recommendations.

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 collaboration with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye protection: Risk of splashes: Wear approved safety goggles.

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

Hygiene measures: Wash hands after handling. Observe good chemical hygiene practices. When using do not eat, drink or smoke. Always remove grease with soap and water or skin cleaning agent, never use organic solvents.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: Grease.
Colour: Brownish.
Odour: Characteristic.
Odour threshold: Not available.
pH: Not applicable.
Melting point / freezing point: Not applicable.
Boiling point: Not available.
Flash point: >220°C (Base oil)
Evaporation rate: Not available.
Flammability (solid, gas): Not applicable.
Explosion limits: Not available.
Vapour pressure: Negligible.
Vapour density: Not available.
Relative density: 900 kg/m³
Solubility: Insoluble in water.
Soluble in: Organic solvents.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): Not available.
Decomposition temperature (°C): Not available.
Viscosity: Not applicable.
Explosive properties: Non-explosive
Oxidising properties: Not applicable.

9.2. Other information

Other data: Not available.



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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 oxidizing substances.

10.6. Hazardous decomposition products

Hazardous decomposition products: Hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. 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 sensitisation: 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: Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

Skin contact: Prolonged or repeated contact with used grease 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.



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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

12.2. Persistence and degradability

Degradability: No data available.

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

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.

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.



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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.

SECTION 16: OTHER INFORMATION

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

Change to Sections: 3.

Wording of H-statements:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.
