



SAFETY DATA SHEET

Product name:	GulfSea Hydraulic HVI Plus 15	Page:	1/11
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 Hydraulic HVI Plus 15
Container size: -

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

Application: Hydraulic oil.

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: Aspiration toxicity Cat 1

2.2. Label elements



Danger

H304 May be fatal if swallowed and enters airways.

P331	Do NOT induce vomiting.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P501	Dispose of contents/container in accordance with local regulations.
P405	Store locked up.
P103	Read label before use.
P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.

2.3. Other hazards

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.



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

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

GHS:

%:	CAS-No.:	EC No.:	REACH Reg. No:	Chemical name:	Hazard classification:	Notes:
50-75	64742-53-6	265-156-6	-	Distillates (petroleum), hydrotreated light naphthenic; Baseoil-unspecified	Asp. Tox. 1;H304	
25-50	64742-56-9	265-159-2	-	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil-unspecified	Asp. Tox. 1;H304	
1-<3	64742-65-0	265-169-7	-	Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil-unspecified	-	L
<0.2	128-39-2	204-884-0	-	2,6-Di-tert-butylphenol	Skin Irrit. 2;H315 Aquatic Acute 1;H400 Aquatic Chronic 1;H410	

Notes: L: DMSO < 3% (IP 346)

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

<u>Inhalation:</u>	Move into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.
<u>Skin contact:</u>	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.
<u>Eye contact:</u>	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.
<u>Ingestion:</u>	DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration hazard. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Rinse mouth with water. If unconscious: Loosen tight fitting clothes and place in recovery position.

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

<u>Symptoms/effects:</u>	Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Defatting, drying and cracking of skin.
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4.3. Indication of any immediate medical attention and special treatment needed

<u>Medical attention/treatments:</u>	Treat symptomatically. If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice.
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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. 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

Reference: 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

<u>Safe handling advice:</u>	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.
<u>Technical measures:</u>	Use work methods which minimise oil mist production. Do not smoke or use open fire or other sources of ignition.
<u>Technical precautions:</u>	When working with heated oil, mechanical ventilation may be required.

7.2. Conditions for safe storage, including any incompatibilities

<u>Technical measures for safe storage:</u>	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.
<u>Storage conditions:</u>	Store in tightly closed original container in a well-ventilated place. Protect from heat and direct sunlight.

7.3. Specific end use(s)

<u>Specific use(s):</u>	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>
-	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. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapours and oil mist.

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 collaboration 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: Oily liquid
Colour: Clear to yellow.
Odour: Characteristic.
Odour threshold: Not available.
pH: Not applicable.
Pour point (°C): -42°C
Boiling point: Not applicable.
Flash point: OC (Open cup). 180°C [ASTM D92.]
Evaporation rate: Not available.
Flammability (solid, gas): Not applicable.
Explosion limits: Not available.
Vapour pressure: <0.01 kPa (20°C)
Vapour density: Not available.
Relative density: ~0.86
Solubility: Soluble in: Organic solvents.
Insoluble in water.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (°C): >230°C
Decomposition temperature (°C): >230°C
Viscosity: 14.9 mm²/s (40°C)
3.88 mm²/s (100°C)
Explosive properties: Not applicable.
Oxidising properties: Not applicable.

9.2. Other information

Other data: No additional information.



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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.



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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:

Acute toxicity:

LC50 (inhalation, rat, 4h): 5.53 mg/l: Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil-unspecified

LC50 (inhalation, rat, 4h): 2180 mg/m³: Distillates (petroleum), hydrotreated light naphthenic; Baseoil-unspecified

LD50 (dermal, rabbit): >5000 mg/kg: Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil-unspecified

LD50 (dermal, rabbit): >10 g/kg: 2,6-Di-tert-butylphenol

LD50 (oral, rat): >5000 mg/kg: Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil-unspecified

LD50 (oral, rat): >5000 mg/kg: Distillates (petroleum), hydrotreated light naphthenic; Baseoil-unspecified

Skin Corrosion/Irritation:

Erythema/Eschar score: 0.17, Rabbit, Duration: 72 hours, Observation: 7 days

Oedema score: 0, Rabbit, Duration: 72 hours, Observation: 7 days

Iritis score: 0, Rabbit, Duration: 48 hours, Observation: 72 hours

Conjunctivitis score: 0.33 Rabbit, Duration: 48 hours, Observation: 72 hours

Skin sensitisation: Not a skin sensitizer (guinea pig).

Mutagenicity: Negative.

Carcinogenicity: Negative.

Reproductive Toxicity: Negative.

Teratogenicity: Negative.

STOT - Single exposure: Not available.

STOT - Repeated exposure: Not available.



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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: Potentially degradable, but will persist in the environment for long periods.

12.3. Bioaccumulative potential

Bioaccumulative potential: LogPow:
>3: Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil-unspecified
4.5: 2,6-Di-tert-butylphenol

12.4. Mobility in soil

Mobility: Spillages may penetrate the soil causing ground water contamination.

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 10

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 Not regulated.

Substance:

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.



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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.

Wording of H-statements:

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H410	Very toxic 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.
