

GulfSea HYPERBAR CS 2

Gulf Marine Pte. Ltd.
Chemwatch: 5670-11
Version No: 2.1

Safety Data Sheet in accordance with SS 586-3:2022

Issue Date: **09/11/2023** Print Date: **24/04/2025** S.GHS.SGP.EN.E

SECTION 1 Identification of the substance / mixture and of the company / undertaking

| Dra | duict | Idon | tifier |
|-----|-------|------|--------|
| | | | |

| 1 roduct tuestance | | |
|-------------------------------|-----------------------|--|
| Product name | GulfSea HYPERBAR CS 2 | |
| Chemical Name | Not Applicable | |
| Synonyms | Not Available | |
| Chemical formula | Not Applicable | |
| Other means of identification | 2MG8222-93 | |

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

| Relevant identified uses | Grease |
|--------------------------|---|
| Relevant identified uses | Use according to manufacturer's directions. |

Details of the manufacturer or supplier of the safety data sheet

| | ., , |
|-------------------------|-------------------------------|
| Registered company name | Gulf Marine Pte. Ltd. |
| Address | 37 Tuas Road 638503 Singapore |
| Telephone | +65 6592 0120 |
| Fax | Not Available |
| Website | Not Available |
| Email | sds@gulf-marine.com |

Emergency telephone number

| Association / Organisation | Gulf Marine Pte. Ltd. |
|-------------------------------------|-----------------------|
| Emergency telephone number(s) | +65 6592 0120 |
| Other emergency telephone number(s) | Not Available |

SECTION 2 Hazards identification

Classification of the substance or mixture

| Classification | Non hazardous |
|----------------|---------------|

Label elements

| Label elements | | |
|---------------------|----------------|--|
| Hazard pictogram(s) | Not Applicable | |
| | | |
| Signal word | Not Applicable | |

Hazard statement(s)

Not Applicable

Precautionary statement(s) Prevention

Not Applicable

Precautionary statement(s) Response

Not Applicable

Precautionary statement(s) Storage

Not Applicable

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Precautionary statement(s) Disposal

Not Applicable

Other hazards

Not Applicable

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name | Synonyms | Chemical formula |
|---------------|-----------|-------------------------|----------|------------------|
| Not Available | NotSpec | proprietary ingredients | | Not Available |

SECTION 4 First aid measures

Description of first aid measures

| Eye Contact | If this product comes in contact with eyes: Wash out immediately with water. If irritation continues, seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. |
|--------------|--|
| Skin Contact | If skin or hair contact occurs: Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation. |
| Inhalation | If fumes, aerosols or combustion products are inhaled remove from contaminated area. Other measures are usually unnecessary. |
| Ingestion | Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. |

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- ▶ BCF (where regulations permit).
- Carbon dioxide.
- ▶ Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture Fine has a manufile life. None has

| Fire Incompatibility | None known. |
|-------------------------|---|
| Advice for firefighters | |
| Fire Fighting | Alert Fire Brigade and tell them location and nature of hazard. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use. |
| Fire/Explosion Hazard | Combustible. Will burn if ignited. |

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

| Methods and material for containment and cleaning up | | |
|--|--|--|
| Minor Spills | Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety goggles. Trowel up/scrape up. Place spilled material in clean, dry, sealed container. Flush spill area with water. | |
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Control personal contact with the substance, by using protective equipment. Prevent spillage from entering drains, sewers or water courses. Recover product wherever possible. Put residues in labelled containers for disposal. If contamination of drains or waterways occurs, advise emergency services. | |

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Personal Protective Equipment advice is contained in Section 8 of the SDS

SECTION 7 Handling and storage

Precautions for safe handling

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

Safe handling

- Store in original containers.
- Keep containers securely sealed. No smoking, naked lights or ignition sources.
- Other information
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container

- Metal can or drum
- Packaging as recommended by manufacturer.
- ► Check all containers are clearly labelled and free from leaks.

Storage incompatibility

Avoid contamination of water, foodstuffs, feed or seed

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Not Available

| Ingredient | Original IDLH | Revised IDLH |
|-----------------------|---------------|---------------|
| GulfSea HYPERBAR CS 2 | Not Available | Not Available |

Exposure controls

Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant: | Air Speed: |
|---|----------------------------------|
| solvent, vapours, degreasing etc., evaporating from tank (in still air) | 0.25-0.5 m/s (50- 100 f/min) |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | 0.5-1 m/s (100- 200 f/min.) |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion) | 1-2.5 m/s (200- 500 f/min) |
| grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion). | 2.5-10 m/s (500- 2000 f/min.) |

Within each range the appropriate value depends on:

| Lower end of the range | Upper end of the range |
|---|------------------------------------|
| 1: Room air currents minimal or favourable to capture | 1: Disturbing room air currents |
| 2: Contaminants of low toxicity or of nuisance value only | 2: Contaminants of high toxicity |
| 3: Intermittent, low production. | 3: High production, heavy use |
| 4: Large hood or large air mass in motion | 4: Small hood - local control only |

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other

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Individual protection measures, such as personal protective equipment Safety glasses with side shields

mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

- Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Eye and face protection

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Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

Hands/feet protection Wear general protective gloves, eg. light weight rubber gloves. **Body protection** See Other protection below No special equipment needed when handling small quantities. OTHERWISE:

Other protection

Skin protection

Overalls.

See Hand protection below

- Barrier cream.
- Eyewash unit.

Respiratory protection

- · Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
- · The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
- Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or
- · Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
- · Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
- · Use approved positive flow mask if significant quantities of dust becomes airborne.
- · Try to avoid creating dust conditions

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties Appearance Light brown color semi solid with no odor. Relative density (Water = 1) Physical state Gel <1 Partition coefficient n-octanol Odour Not Available Not Available / water Auto-ignition temperature Odour threshold Not Available Not Available (°C) Decomposition pH (as supplied) Not Available Not Available temperature (°C) Melting point / freezing point Not Available Not Available Viscosity (cSt) Initial boiling point and Not Available Molecular weight (g/mol) Not Applicable boiling range (°C) >220 (COC) Not Available Flash point (°C) **Explosive properties Evaporation rate** Not Available Not Available Flammability Not Applicable Not Available Oxidising properties Surface Tension (dyn/cm or Upper Explosive Limit (%) Not Available Not Available mN/m) Lower Explosive Limit (%) Not Available Volatile Component (%vol) Not Available Vapour pressure (kPa) Not Available Gas group Not Available Solubility in water Not Available pH as a solution (1%) Not Available Vapour density (Air = 1) Not Available VOC a/L Not Available Heat of Combustion (kJ/g) Not Available Ignition Distance (cm) Not Available Flame Height (cm) Not Available Flame Duration (s) Not Available **Enclosed Space Ignition Enclosed Space Ignition** Not Available Not Available Time Equivalent (s/m3) Deflagration Density (g/m3)

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|------------------------------------|---|
| Chemical stability | Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |

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| Incompatible materials | See section 7 |
|----------------------------------|---------------|
| Hazardous decomposition products | See section 5 |

SECTION 11 Toxicological information

| a) Acute Toxicity | Based on available data, the classification criteria are not met. | | |
|---|---|-------------|-----------|
| b) Skin Irritation/Corrosion | Based on available data, the classification criteria are not met. | | |
| c) Serious Eye Damage/Irritation | Based on available data, the classification criteria a | re not met. | |
| d) Respiratory or Skin sensitisation | Based on available data, the classification criteria a | re not met. | |
| e) Mutagenicity | Based on available data, the classification criteria a | re not met. | |
| f) Carcinogenicity | Based on available data, the classification criteria a | re not met. | |
| g) Reproductivity | Based on available data, the classification criteria a | re not met. | |
| h) 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. | | |
| j) Aspiration Hazard | Based on available data, the classification criteria are not met. | | |
| Inhaled | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. | | |
| Ingestion | The material has NOT been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence. | | |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting. | | |
| Eye | Although the material is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn). | | |
| Chronic | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course. | | |
| | TOXICITY | IRR | ITATION |
| GulfSea HYPERBAR CS 2 | Not Available | Not | Available |

specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

| Acute Toxicity | × | Carcinogenicity | × |
|-----------------------------------|---|--------------------------|---|
| Skin Irritation/Corrosion | × | Reproductivity | × |
| Serious Eye Damage/Irritation | × | STOT - Single Exposure | × |
| Respiratory or Skin sensitisation | × | STOT - Repeated Exposure | × |
| Mutagenicity | × | Aspiration Hazard | × |

Legend:

X − Data either not available or does not fill the criteria for classification
 y − Data available to make classification

Other information

Not Available

SECTION 12 Ecological information

Toxicity

| | Endpoint | Test Duration (hr) | Species | Value | Source |
|-----------------------|--|--------------------|---------------|------------------|------------------|
| GulfSea HYPERBAR CS 2 | Not Available | Not Available | Not Available | Not Available | Not Available |
| Legend: | Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data | | | | |

DO NOT discharge into sewer or waterways.

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|------------|---------------------------------------|---------------------------------------|
| | No Data available for all ingredients | No Data available for all ingredients |

Rioaccumulative notential

| Bloaccumulative potential | |
|---------------------------|---------------------------------------|
| Ingredient | Bioaccumulation |
| | No Data available for all ingredients |

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Mobility in soil

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| Ingredient | Mobility | |
|------------|---------------------------------------|--|
| | No Data available for all ingredients | |

Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ▶ Consult State Land Waste Management Authority for disposal.
- ▶ Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

SECTION 14 Transport information

Labels Required

| Marine Pollutant | NO |
|------------------|----|

Land transport (UN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

14.7. Maritime transport in bulk according to IMO instruments

14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group |
|--------------|-------|
| | |

14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type |
|--------------|-----------|
|--------------|-----------|

SECTION 15 Regulatory information

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

Additional Regulatory Information

Not Applicable

National Inventory Status

| National Inventory | Status |
|---|--|
| Australia - AIIC / Australia Non- Industrial Use | Not Available |
| Canada - DSL | Not Available |
| Canada - NDSL | Not Available |
| China - IECSC | Not Available |
| Europe - EINEC / ELINCS / NLP | Not Available |
| Japan - ENCS | Not Available |
| Korea - KECI | Not Available |
| New Zealand - NZIoC | Not Available |
| Philippines - PICCS | Not Available |
| USA - TSCA | Not Available |
| Taiwan - TCSI | Not Available |
| Mexico - INSQ | Not Available |
| Vietnam - NCI | Not Available |
| Russia - FBEPH | Not Available |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

SECTION 16 Other information

| Revision Date | 09/11/2023 |
|---------------|------------|
| Initial Date | 09/11/2023 |

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Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.