



MATERIAL SAFETY DATA SHEET

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Revision Date:	14/02//2017	Revision nr:	3
Product No.:	1GG5000	Supersedes:	25/07//2014

1. Identification of the product and the company

Trade name : GulfSea Power MDO (3012, 3015, 3020, 4012, 4015, 4020)
Use : Lubricating oil for marine diesel engines.
Company identification : Gulf Oil Marine Ltd. 13th Floor, Fortis Tower, No. 77-79 Gloucester Road, Wan Chai, Hong Kong
Tel : (852) 3693 0568 Fax : (852) 3748 9960 www.gulf-marine.com
Emergency phone nr : Tel : (852) 3693 0568
Company : As above.

2. Information on ingredients

This product is not considered to be hazardous but contains hazardous components.

Composition (preparation) : Mixture of Mineral base stocks & performance additives.

Substance name	Value (s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Zinc alkyl dithiophosphate	: 0.5 - 0.75 %	68649-42-3	272-028-3	-----	Xi; R41 N; R51-53
Benzoic acid, hydroxy-, mono-C20-28-branched alkyl derivs., calcium salts (2:1)	: 0.5 - 2.0 %	900185-23-1	-----	-----	R53 Xi; R38 Xi; R43
Calcium long chain alkylphenol	: 0.1 - 0.3 %	-----	-----	-----	R53 Xi; R38
Long chain alkylphenol	: 0.1 - 0.3 %	-----	-----	-----	R53 Xi; R38
Polyolefin polyamine succinimide	: 0.2 - 0.4 %	-----	-----	-----	R53

3. Hazards identification

Main hazards : Not classified as a dangerous preparation according to 1999/45/EC.
Adverse human health effects : None under normal conditions.
Environmental hazards : No specific risk for the environment.

4. First aid measures

First aid

- **Inhalation** : Assure fresh air breathing. Obtain medical attention if breathing difficulty persists.
- **Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if irritation develops.
- **Eye contact** : Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- **Ingestion** : DO NOT INDUCE VOMITING. Seek medical attention immediately.

Note to physician : 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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5. Fire - fighting measures

Extinguishing media

- Suitable extinguishers** : Water fog. Carbon dioxide. Dry chemical. Foam. Sand.
- Extinguishers not to be used** : Do not use a heavy water stream.
- Surrounding fires** : Use water spray or fog for cooling exposed containers.
- Special exposure hazards** : None under normal conditions. See also hazardous reactions § 10.

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : None Identified.

6. Accidental release measures

- Personal precautions** : Keep public away from danger area. Wear recommended personal protective equipment. Equip cleanup crew with proper protection.
- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
- After spillage and/or leakage on soil** : Clean up any spills as soon as possible, using an absorbent material to collect it. Collect spills and put it into appropriated container. Use suitable disposal containers. Recover the cleaning water for disposal. Spill area may be slippery.
: May require excavation of contaminated soil.

7. Handling and storage

- General Precautions in handling and storage** : No naked lights. No smoking. Keep away from sources of ignition.
: Handle in accordance with good industrial hygiene and safety procedures.
: Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place. Keep at temperature not exceeding 45°C.
- Handling** : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

8. Exposure controls / personal protection

- Personal protection**
- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
- **Hand protection** : Use neoprene or rubber gloves.
- **Skin protection** : No special clothing/skin protection equipment is recommended under normal conditions of use.
- **Eye protection** : Safety glasses.
- Industrial hygiene** : Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. When using, do not eat, drink or smoke. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.



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Occupational Exposure Limits : According to TWA (TLV) ACGIH : 3 mg/m³ for oil mist.

9. Physical and chemical properties

Physical state : Liquid.
Colour : Amber.
Odour : Mild.
Pour point [°C] : -18
Viscosity at 100°C [mm²/s] : 11.1 to 14.3
Flash point [°C] (ASTM D 92) : 232 to 244
Specific gravity : 0.8919

10. Stability and reactivity

Physico-chemical stability : Stable.
Conditions to avoid : Open flame. Sparks. Overheating.
Materials to avoid : Oxidizing agents. Strong acids, bases.
Hazardous decomposition products : Carbon dioxide. Carbon monoxide. Hydrogen sulfide.
Hazardous reactions : None under normal conditions.
Hazardous Polymerization : Will not occur.

11. Toxicological information

Acute toxicity : Not expected to be toxic.
- Inhalation : Practically non toxic at normal conditions of usage. May cause respiratory irritation following prolonged or repeated inhalation of excessive oil mist and vapours.
- Dermal : Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
- Ingestion : Practically non toxic if swallowed in small doses. Larger quantities may cause nausea & diarrhoea.
- Carcinogenicity : No data available.
- Mutagenicity : Not expected to be a mutagenic hazard.

12. Ecological information

Ecological effects information : Adverse effects to the environment are not expected from this product
Bioaccumulative potential : Not determined.
Mobility soil : Ground water contamination may be caused through spillages

13. Disposal considerations

Disposal : Dispose in a safe manner in accordance with local/national regulations.



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14. Transport information

General information	:	Not regulated.
- UN No	:	Not regulated.
- ADR/RID	:	Not regulated.
- IMO-IMDG code	:	Not regulated.
- ICAO/IATA	:	Not regulated.

15. Regulatory information

Symbol(s)	:	Xi - Irritant.
R Phrase(s)	:	R43: May cause sensitization by skin contact.
S Phrase(s)	:	S24: Avoid contact with skin. S37 : Wear suitable gloves.

16. Other information

R-phrases listed in chapter 2	:	R38 : Irritating to skin. R41 : Risk of serious damage to eyes. R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R53 : May cause long-term adverse effects in the aquatic environment.
Product information	:	For specific or detailed technical data for this product, please contact your local sales representative.
Note	:	To the best of our knowledge and belief, the information and recommendations provided in this MSDS are correct. We make no warranty whatsoever, expressed or implied of merchantability or fitness for the particular purpose, regarding the accuracy of such data or the results to be obtained from the use thereof. We do not assume any liability for consequences of the uses of this information since it may be applied under conditions beyond our control or knowledge. The information is furnished on the condition that the recipients shall make their own decision as to safety and suitability of the material for their purposes. We will not be responsible for damages of any nature resulting from the use or reliance upon the information and recommendations. If you have purchased this product for supply to a third party, it is your duty to pass on to that third party the information given in this Data Sheet. If the third party is not an employer it is his duty to pass the information given in the Data Sheet to the employer of whoever uses or handles this product. It is an employer's duty to advise and instruct his employees handling this product (and others who may be affected) , of any hazards described in the Data Sheet and of any precautions which should be taken to ensure safe handling of the product.

The contents and format of this MSDS are in accordance with EEC Commission Directive 93/112/EEC.

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