



MATERIAL SAFETY DATA SHEET

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Revision Date:	14/02/2017	Revision nr:	4
Product No.:	2SR1000	Supersedes:	25/07/14

1. Identification of the product and the company

Trade name : GulfSea PE Cooil. (ISO VG 32, 46, 68, 100, 150 & 220)
Use : Refrigeration Compressor Lubricant
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 Company : Tel : (852) 3693 0568
: As above.

2. Information on ingredients

This product is not considered to be hazardous and does not contain hazardous components.

Composition (preparation) : Blend of Synthetic base stocks (Carboxylic Esters)

Substance name	Value (s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Polyol Ester	: 80 - 100 %	MIXTURE	-----	-----	-----

3. Hazards identification

Main hazards : Not a dangerous preparation according to 1999/45/EC.
Adverse human health effects : None under normal conditions.
Environmental hazards : No specific risk for the environment.
Symptoms relating to use
Inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision.
Skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use. Prolonged or repeated contact may cause skin to become dry or cracked.
Eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use. Direct contact with the eyes is likely slightly irritating.
Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
Note : Used oils can get contaminated with refrigerant gases, some of which may be hazardous. Please see Section 13 of this MSDS

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. Wash skin thoroughly with mild soap and water. 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.
General information : Treat symptomatically. If there is any suspicion of aspiration into the



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lungs either directly or as a result of vomiting, obtain medical advice.

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 : Regular/ proper maintenance of compressors is essential as they may otherwise lead to a potential fire and explosion hazard. 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 : Avoid all unnecessary exposure. 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 : 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.

on soil : May require excavation of contaminated soil.

7. Handling and storage

General : No naked lights. No smoking. Keep away from sources of ignition. Avoid all unnecessary exposure.

Precautions in handling and storage : Handle in accordance with good industrial hygiene and safety procedures.

Storage : 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. Ensure prompt removal from eyes, skin and clothing.



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8. Exposure controls / personal protection

Personal protection

- **Respiratory protection** : No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. Where excessive vapour may result, wear approved mask.
 - **Hand protection** : Use neoprene or rubber gloves.
 - **Skin protection** : No special clothing/skin protection equipment is recommended under normal conditions of use. In case of possible repeated skin contact wear protective clothing.
 - **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.
- Occupational Exposure Limits** : according to TWA (TLV) ACGIH : 3 mg/m³ for oil mist.

9. Physical and chemical properties

- Physical state** : Liquid.
- Colour** : Colourless to light yellow.
- Odour** : Ester.
- Pour point [°C]** : < -28
- Initial boiling point [°C]** : > 200
- Viscosity at 40°C [mm²/s]** : 32 to 220
- Solubility in water** : Insoluble.
- Flash point [°C] (ASTM D 92)** : > 240
- Specific gravity** : 0.96 to 0.99

10. Stability and reactivity

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



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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. LD50 rat > 2000mg/kg
- Ocular	:	Repeated exposure may cause a slight irritation.
- Ingestion	:	Practically non toxic if swallowed in small doses. Larger quantities may cause nausea & diarrhoea. LD50 rat > 5000 mg/kg
- Chronic toxicity	:	Not expected to be toxic.
- Sensitization	:	No sensitization effects known.
- Carcinogenicity	:	No data available. The ingredients used in this preparation are not associated with carcinogenic effects.
- 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
LC50-96 Hour - fish [mg/l]	:	>100
48 Hour-EC50 - Daphnia magna [mg/l]	:	>100
Persistence and degradability	:	Readily Bio-degradable. >70% degradation within 28 days according to modified Sturm test.
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. Used Oils- Used oils contaminated with refrigerant gases which are hazardous may require specific disposal precautions. The MSDS of the gas concerned can be referred to for details in this regard.
Waste-disposal procedures	:	Dispose in a safe manner in accordance with local/national regulations. Dispose only by approved contractors following regulations covering disposal of halogenated materials. If Permitted - Burn in a chemical incinerator equipped with an afterburner and a scrubber. Attention : national and/or local laws and regulations may preclude

14. Transport information

General information	:	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
UN No.	:	Not regulated.
ADR/RID	:	Not regulated.
IMO-IMDG code	:	Not regulated.
ICAO/IATA	:	Not regulated.



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15. Regulatory information

EC Labelling	:	Not classified.
Symbol(s)	:	None.
R Phrase(s)	:	None.
S Phrase(s)	:	None.
Regul./ EINECS	:	All components are in compliance with the EC Seventh amendment Directive 92/32/ EEC
Canada	:	In compliance (DSL)
SARA – USA	:	Section 311 and 312 hazards classification(s) : None
US Toxic Substances Control Act - TSCA	:	In compliance
Australian Inventory of Chemical Substances (AICS)	:	In compliance
WHMIS (Canada)	:	Not classified. Not listed on the Canadian Controlled Product Ingredient Disclosure and is compliant with Controlled Products Regulation.
OSHA hazardous chemical(s)	:	Not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

16. Other information

Further information : For specific or detailed technical data for this product, please contact your local sales representative.

The contents and format of this MSDS are in accordance with Regulation (EC) Np 1907/2006 of the European Parliament and of the Council.

DISCLAIMER OF LIABILITY

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