



# MATERIAL SAFETY DATA SHEET

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<b>Revision Date:</b>	14/02/2017	<b>Revision nr:</b>	3
<b>Product No.:</b>	2MR1000	<b>Supersedes:</b>	25/07/2014

## 1. Identification of the product and the company

<b>Trade name</b>	:	GulfSea N Cooloil. (ISO VG 32, 46, 68)
<b>Use</b>	:	Refrigeration Compressor Lubricant
<b>Company identification</b>	:	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
<b>Emergency phone nr Company</b>	:	Tel : (852) 3693 0568 As above

## 2. Information on ingredients

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

Substance name	Value (s)	CAS nr	EINECS nr	EC index	CERTIFICATE
Base oil : distillates hydrotreated heavy naphthenic	: 80 - 100 %	64742-52-5	265-155-0	649-465-00-7	R53

## 3. Hazards identification

<b>Main hazards</b>	:	Not a dangerous preparation according to 1999/45/EC.
<b>Adverse human health effects</b>	:	None under normal conditions.
<b>Environmental hazards</b>	:	No specific risk for the environment.
<b>Symptoms relating to use</b>	:	
<b>Inhalation</b>	:	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.
<b>Skin contact</b>	:	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.
<b>Eye contact</b>	:	Not expected to present a significant eye contact hazard under anticipated conditions of normal use. Direct contact with the eyes is likely slightly irritating.
<b>Ingestion</b>	:	Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
<b>Note :</b>	:	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

<b>First aid</b>	:	
- 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. Wash skin thoroughly with mild soap and water.
- Eye contact	:	Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- Ingestion	:	DO NOT INDUCE VOMITING. Seek medical attention immediately.
<b>Note to physician</b>	:	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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## 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 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** : 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.

## 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.
  - **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/m<sup>3</sup> for oil mist.



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## 9. Physical and chemical properties

<b>Physical state</b>	:	Liquid
<b>Colour</b>	:	Amber
<b>Odour</b>	:	Light odour of petroleum.
<b>Pour point [°C]</b>	:	< -35 deg C
<b>Initial boiling point [°C]</b>	:	260
<b>Final boiling point [°C]</b>	:	595
<b>Viscosity at 40°C [mm<sup>2</sup>/s]</b>	:	32 to 68
<b>Solubility in water</b>	:	Insoluble
<b>Flash point [°C] (ASTM D 92)</b>	:	> 180
<b>Specific gravity</b>	:	0.88 to 0.90

## 10. Stability and reactivity

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

## 11. Toxicological information

<b>Acute toxicity</b>	:	Not expected to be toxic.
- <b>Inhalation</b>	:	Practically non toxic at normal conditions of usage. May cause respiratory irritation following prolonged or repeated inhalation of excessive oil mist and vapours.
- <b>Dermal</b>	:	Not expected to be a primary skin irritant. Prolonged or repeated exposure may lead to dermatitis.
- <b>Ocular</b>	:	Repeated exposure may cause a slight irritation.
- <b>Ingestion</b>	:	Practically non toxic if swallowed in small doses. Larger quantities may cause nausea & diarrhea.
- <b>Chronic toxicity</b>	:	Not expected to be toxic.
- <b>Sensitization</b>	:	No sensitization effects known.
- <b>Carcinogenicity</b>	:	No data available. The ingredients used in this preparation have not been listed in the US National Toxicology Program (NTP) nor have they been classified by the International Agency for Research on Cancer (IARC) as carcinogenic or probably carcinogenic to humans. This product is severely hydrotreated at greater than 800 psi, and does not require a cancer warning under OSHA Hazard Communication Standard (29 CFR 1910.1200). Similar products have not been listed in NTP reports, and are classified by IARC as having inadequate evidence of carcinogenicity.
- <b>Mutagenicity</b>	:	Not expected to be a mutagenic hazard. IARC indicates that based on preponderance of data, highly refined mineral oils are not mutagenic either in vitro or in vivo.



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## 12. Ecological information

- On product** : Ecotoxicity: Available data indicate this product is not acutely toxic. 96 hr acute static toxicity for Pimephales promelas (Fathead Minnow) LC50 mortality is greater than 30,000 mg/L. Other Similar products have shown 48 hr EL50 for Daphnia magna greater than 100 mg/ L, and 96 hr IrL50 for Scenedesmus subspicatus (Alga) greater then 1000 mg/L
- Ecological effects information** : Adverse effects to the environment are not expected from this product.
- Bioaccumulative potential** : This product reaches less than 10% biodegradation in standard 28-day test and is not readily biodegradable in the environment.
- 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 fo 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 the use of this method.

## 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.

## 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



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## 16. Other information

**R-phrases listed in chapter 2** : R53: May cause long term effects in the aquatic environment.

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

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**Note** :

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

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