

Identification of the Product and the Company

Product identity:

Petrogulf Refrigeration Compressor Oil (ISO 32,46, 68, 100)

Company information

PetroGulf Oil Manufacturing L.L.C

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1. Hazards identification

Hazard Based on available information, this material is not classified as hazardous

Skin Avoid contact with skin and clothing. Wash thoroughly after handling.

Eyes Avoid contact with eyes. Wash thoroughly after handling.

Classification Not classified as Dangerous Goods, according to the Local/National Code for the Transport of Dangerous Goods by Road & Rail.

Precautions Inhalation Avoid breathing dust/fume/gas/mist/vapors/spray. Keep container tightly closed. Use only with adequate ventilation.

2. Composition/information on ingredients

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

Composition of the preparation: Blend of Synthetic base stocks

Name	CAS Number	Proportion
Base oil : distillates hydrotreated heavy naphthenic		80 - 100 %

4. First aid measures

Inhalation : Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin contact : If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

Eye contact : If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion : Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Advice to Doctor: Treat symptomatically.

5. Firefighting measures

Suitable extinguishing media : If material is involved in a fire use water fog (or if unavailable fine water Spray), foam, dry agent (carbon dioxide, dry chemical powder).

Specific hazards : Combustible material.

Firefighting further advice : On burning may emit toxic fumes. Fire fighters to wear self-contained Breathing apparatus and suitable protective clothing if risk of exposure to vapor or products of combustion.

6. Accidental release measures

Personal Precautions : Wear protective equipment to prevent skin and eye contamination. Avoid inhalation of vapors. Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labeled containers or drums for Disposal.

Environmental Precautions: Clear area of all unprotected personnel. Prevent further leakage or spillage if safe to do so. Slippery when Spill. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye Contamination and the inhalation of vapors. Work up wind or increase ventilation. Contain - prevent run off Into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly Labeled containers or drums for disposal. If contamination of sewers or waterways has occurred advise Local emergency services.

7. Handling and storage

Handling : Avoid eye contact and repeated or prolonged skin contact.

Storage : Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from incompatible Materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

Biological Limit Values: As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

Engineering measures: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

Personal protection equipment: OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES. Wear overalls, safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations

in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or reusing.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or Smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and repeated or prolonged skin contact. Ensure that eyewash stations and safety showers are close to the workstation location.

8. Exposure controls/personal protection

National Exposure Standards: No exposure standard has been established, however, the TWA National Occupational Health and Safety Commission exposure standard for oil mist is 3 mg/m³. As with all chemicals, exposure should be kept to the lowest possible level.

Engineering Controls: Use in well ventilated areas. Where ventilation is inadequate, a local exhaust ventilation system is required.

Eye Protection : Safety glasses with side shields, goggles or full face mask as appropriate. Individual circumstances will dictate the final choice of protection.

Hand Protection: Use gloves of an impervious nature. Individual circumstances will dictate the final choice of protection.

Body Protection: No special clothing/skin protection equipment is recommended under normal conditions of use.

Respiratory Protection: Normally not required, however if mists or vapors are generated in a poorly ventilated area an approved respirator with a replaceable vapor/mist filter is recommended.

9. Physical and chemical properties

Physical Appearance	: Liquid.
Colour	: Colorless to light yellow.
Odour	: Light Odor for Petroleum
Pour point [°C]	: < -30 °C
Initial boiling point [°C]	: 260
Density	: 0.88-0.912
Viscosity at 40°C [mm ² /s]	: 32 - 100
Flash point [°C] (ASTM D 92)	: > 190
Solubility in water	Insoluble.

10. Stability and reactivity

Reactivity : No reactivity hazards are known for the material.

Chemical stability : This material is thermally stable when stored and used as directed.

Hazardous reactions : No known hazardous reactions.

Conditions to avoid : Elevated temperatures and sources of ignition.

Incompatible materials : Oxidizing agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

11. Toxicological information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation : Material may be an irritant to mucous membranes and respiratory tract.

Skin contact : Repeated or prolonged skin contact may lead to irritation.

Ingestion : Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact : May be an eye irritant.

12. Ecological information

Avoid contaminating waterways.

Acute aquatic hazard : This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients) : >100 mg/L

Long-term aquatic hazard: This material has been classified as non-hazardous. Acute toxicity estimate (based on ingredients) : >100 mg/L

Ecotoxicity : No information available.

Persistence and degradability : No information available.

Bio-accumulative potential : No information available.

Mobility : No information available.

13. Disposal considerations

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal Protection equipment is used; Exposure Controls and Personal Protection” of this SDS. If possible material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national and international Regulations.

14. Transport information

ROAD AND RAIL TRANSPORT

Not classified as Dangerous Goods by the criteria of the “Australian Code for the Transport of Dangerous Goods by Road & Rail” and the “New Zealand NZS5433: Transport of Dangerous Goods on Land”.

MARINE TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. Regulatory Information

Poison Schedule: Not scheduled.

Hazard Category: Not classified as hazardous.

Symbol(s): None.

R Phrase(s): None.

S Phrase(s): None.

16. Other Information

PETROGULF OIL MANUFACTURING LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by **PETROGULF OIL MANUFACTURING LLC** as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does **PETROGULF OIL MANUFACTURING LLC** assume liability arising out of the use by others.