

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT IDENTITY:

Petrogulf Marine Cylinder Oil 5040 / 5055 / 5060 / 5070 / 50100

COMPANY INFORMATION

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Highly refined base oil	(IP 346 DMSO extract < 3%). Proprietary performance additives.	
Ingredient name	CAS no.	Concentration
Base oil - unspecified	Varies	50 - 95

No component is present in sufficient concentrations to require a hazardous classification according to the regulations.

3. HAZARDS IDENTIFICATION

Physical/chemical hazards- Not classified as hazardous.

Health hazards- Not classified as hazardous.

Environmental hazards- Not classified as hazardous.

Effects and symptoms

Eyes- No significant health hazards identified.

Skin- No significant health hazards identified.

Inhalation- No significant health hazards identified.

Ingestion- No significant health hazards identified

4. FIRST-AID MEASURES

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if Irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.

Advice to doctor Treatment should in general be symptomatic and directed to relieving any effects.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable-In case of fire, use water fog, foam, dry chemical or carbon dioxide extinguisher or spray.

Not suitable-Do not uses water jet.

Hazardous decomposition Decomposition products may include the following materials:

Products Carbon dioxide, Carbon monoxide, Sulfur oxides, Metal oxide/oxides.

Unusual fire/explosion hazards This material is not explosive as defined by established regulatory criteria.

Special fire-fighting Procedures None identified.

Protection of fire-fighters Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout Gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment

Environmental precautions Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Handling- Wash thoroughly after handling.

Storage- Keep container tightly closed. Keep container in a cool, well-ventilated area.

Not suitable- Prolonged exposure to elevated temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	Occupational exposure limits
Base oil - unspecified	NZ OSH (NZ).
	STEL: 10 mg/m ³ 15 minute(s). Form: Oil mist, mineral
	TWA: 5 mg/m ³ 8 hour(s). Form: Oil mist, mineral

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Exposure controls

Occupational exposure controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protective equipment

Respiratory protection None required. However, use of adequate ventilation is good industrial practice.

Skin and body None required; however, use of protective clothing is good industrial practice.

Hand protection Wear protective gloves if prolonged or repeated contact is likely (chemical-resistant gloves)

Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the

conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye protection Safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Colour	Dark
Flash point	>235 °C (Closed cup)
Viscosity	Kinematic: 18-21 at 100°C
Density	925 kg/m ³ (0.925 g/cm ³) at 15°C
Solubility	Insoluble in water.

10. STABILITY AND REACTIVITY

Stability The product is stable.

Conditions to avoid- Avoid extreme temperatures, strong oxidizers, fire.

Incompatibility with various substances/Hazardous Reactions Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition Decomposition products may include the following materials:

Products Carbon dioxide
Carbon monoxide
Sulfur oxides
Metal oxide/oxides

11. ECOLOGICAL INFORMATION

Biodegradability Nil

Persistence/degradability The biodegradability of this material has not been determined.

Mobility Spillages may penetrate the soil causing ground water contamination.

Other ecological information Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

12. DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible. Empty containers or **Waste information** liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. If disposal is to be via incineration, this must use an approved process.

13. TOXICOLOGICAL INFORMATION

Acute toxicity Not expected to be toxic.

Inhalation -Harmful by inhalation.

Corrosively No adverse health effects were noted

Sensitization Experimental data has shown that the concentration of potentially sensitizing components present in this product does not induce skin sensitization

Other chronic toxicity data USED ENGINE OILS

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

Carcinogenic affects No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC).

Mutagenic effects No known significant effects or critical hazards.

14. TRANSPORT INFORMATION

International transport regulations

Not classified as hazardous for transport

15. REGULATORY INFORMATION

Inventory	: All components are listed on the TSCA inventory.
CERCLA	: Reportable Quantity: Not known
Acute Health	: None
Chronic Health	: None
Fire Hazard	: None
Pressure Hazard	: None
Reactive Hazard	: 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.