**MATERIAL SAFETY DATA SHEET**

1. **PRODUCT IDENTIFICATION**

**Product Name : PETRO RESTA 412**

**Manufacturer : PT. PETROMITRA PACIFIC INTERNUSA**

**Address : Jl. Raya Serpong No.26 B**

**Telephone Number : 021- 5312 5632**

**Application : Medium Speed Diesel Engine Oil**

1. **COMPOSITIONAL INFORMATION**

**Chemical Name CAS # OSHA PEL ACGIH TLV %(Range)**

Petroleum Oil 64742-54-7 \_ \_ 90 – 100

1. **HAZARDS IDENTIFICATION**

**Hazard Classification:** Harmful if swallowed. Inhalation causes headaches, dizziness,

 drowsiness and nausea, cause eye and skin irritation

1. **FIRST AID MEASURES**

**Inhalation :** Remove to fresh air. If effects persist, seek treatment by a doctor.

**Skin Contact :** Wash skin with water immediately. Get medical attention if any

 symptoms develop. To remove the material from skin, apply a

 waterless hand cleaner, mineral oil, or petroleum jelly. Then wash with

 soap and water.

**Ingestion :** Do not induce vomiting. Wash mouth out with water. Obtain

 immediate treatment by a doctor and provide a copy of this sheet.

**Eyes :** Flush eyes immediately with fresh water for 15 minutes while holding

 the eyelids open. Get immediate medical attention.

1. **FIRE FIGHTING MEASURES**

**Flash Point, 0C :** 284

**Extinguishing Media :** Dry chemical, Foam or CO2

**Special Fire Fighting Procedures :** For firefighter involving this material, do not enter any

 enclosed orconfined fire space without proper protective

 equipment, including self contained breathing apparatus.

**Combustion Products :** Oxides of carbon.

1. **ACCIDENTAL RELEASE MEASURES**

**Personal Precautions :** Immediately contact emergency personnel. Use suitable

 Protective equipment. Follow all fire fighting procedures.

**Environment Precautions :** Prevent liquid entering sewers, drains or water courses.

**Decontamination :** Absorb in earth or sand or other suitable material. In case

 of spillage on water contain by a boom and collect by

 skimming or absorption.

1. **HANDLING & STORAGE**

**Handling :** Do not ingest. Avoid contact with skin, eyes and clothing.

 Wash thoroughly after handling

**Storage :** Keep containers tightly closed. Keep container in a cool,

 well ventilated area. Do not cut, grind, drill, weld, reuse or

 dispose of containers unless adequate precautions are

 taken against these hazards.

1. **EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational Exposure Limits :** None assigned.

**Engineering Control Measures :** Provide exhaust ventilation. Ensure that eyewash stations

 and safety showers are close to the work station location.

 Chemical splash goggles. Wear suitable protective clothing

 and gloves

**Personal Protection :** for eyes.

1. **PHYSICAL & CHEMICAL CHARACTERISTICS**

**Appearance and odor :** Brown liquid and characteristic odor

**Density @ 15oC :** 0.8973

**Boiling Point (oC) :** Not determined

**Melting point (oC) :** Not applicable

**Pour Point :** -18

**Flash Point, oC :** 284

**Solubility in water** Non

**Vapour Density (air=1) :** Not determined

**Evaporation rate :** Not determined

**(Butyl Acetate=1)**

1. **STABILITY AND REACTIVITY**

**Stability :** Stable under normal condition

**Conditions to Avoid :** Avoid exposure to extreme heat

**Material to Avoid :** Strong Oxidizing Agent

**Hazardous Decomposition :** Oxides of Carbon

1. **TOXICOLOGICAL INFORMATION HEALTH EFFECT**

**On eyes :** May cause temporary irritation and discomfort

**On skin :** Generally non irritant on incidental contact. Excessive or

 Prolonged contact may give rise to slight irritation.

**By inhalation :** High concentration of mist may give rise to respiratory irritation.

**By ingestion :** Ingestion of large quantities may cause nausea, sickness and

 diarrhoea.

**Chronic Toxicity :** No hazard anticipated

**Other :** Products which have become contaminated might present more

serious health effect.

1. **ECOLOGICAL INFORMATION**

**Ecotoxicity :** NA.

**Biodegradability :** Not readily biodegradable but inherently biodegradable.

 Leaching and penetration through surface soils is generally

 regarded as resulting in long term persistence.

**Other Ecological Information :** Spillages may penetrate the soil causing ground water

 contamination.Fresh or used product may harmful to

 aquatic life.

1. **DISPOSAL CONSIDERATIONS**

**Waste information :** Avoid contact of spilled material and runoff with soil and

 Surface waterways. Consult an environmental professional

 to determine if local, regional or national regulations

 would classify spilled or contaminated materials as

 hazardous waste. Use only approved

 transporters, recyclers, treatment, storage or disposal

 facilities.

**Dispose method :** Dispose of in accordance with all applicable Local and

 national regulations.

1. **OTHER INFORMATION**

**Other Information :** The data and advice given apply when the product is sold

 for the stated application (s). The product is not sold as

 suitable for any other application. Use of the product for

 applications other than as stated in

 this sheet may give rise to risk not mentioned in this sheet.

 Should not use the product other than for the stated

 application or applications without seeking advice from

 us. If you have purchased the product for supply to a third

 party for use at. work, it is your duty to take all necessary

 steps to secure that any person handling or using the

 product is provided with the information in this sheet.

 If you are an employer, it is your duty to tell your

 employees and others

 who may be affected of any hazard described in this sheet

 and of any precautions which should be taken