



BHARAT PETROLEUM CORPORATION LIMITED
MATERIAL SAFETY DATA SHEET
MAK RR 940

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1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

TRADE NAME : MAK RR 940

PRODUCT CODE : Not Applicable

SUPPLIER : Bharat Petroleum Corporation Limited
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Tel. No. 091-22-24176354
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CHEMICAL DESCRIPTION: Lubricating Oil, Petroleum derived containing additives

2. COMPOSITION AND INFORMATION ON INGREDIENTS

| <u>CHEMICAL OR COMMON NAME</u> | <u>CAS NUMBER</u> | <u>RANGE IN PERCENT</u> |
|---|-----------------------|-----------------------------|
| A) Highly refined HVI base oils) | | 85 - 90 |
| B) Additives containing detergents dispersants,) | | |
| , Rust & Oxidation) | Not Applicable | 10 - 15 |
| Inhibitors, Pour Point Depressants and Antifoam) | for mixtures | |
| Agents) | | |

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION : Avoid prolonged contact with used engine oil. In case with contact, wash area of contact thoroughly with soap and water.

HEALTH EFFECTS:

EYES : The irritation potential has not been determined. May cause slight irritation to eyes depending on the amount that gets into eye.

ORAL : Not expected to be acutely toxic by ingestion. However, if more than several mouthful swallowed, abdominal discomfort, nausea & diarrhea may occur.

INHALATION : The systemic toxicity of this product has not been determined. However, excessive inhalation of mist or vapour may cause respiratory irritation or discomfort.

SKIN : Not expected to cause prolonged or significant skin-irritation.

4. FIRST AID MEASURES

EYES : Flush eyes immediately with fresh water for several minutes while holding eyelids open.

SKIN : Wash skin thoroughly with soap & water. Remove and wash contaminated clothing.

ORAL : If swallowed, give water or milk to drink in case person is conscious. Do not induce vomiting unless advised by medical personnel. If medical advice cannot be obtained, take the person to nearest medical emergency treatment centre or hospital.

INHALATION: If respiratory irritation or discomfort occurs, move the person to fresh air. If any of the effects continue, see doctor.

ADVICE TO DOCTOR : To treat symptomatically

5. FIRE FIGHTING MEASURES

IGNITION TEMPERATURE DEGREE C : Not determined

FLASH POINT DEGREE C (METHOD) : 236 (COC)

FLAMMABLE LIMITS (%) LOWER : Not known UPPER: Not known

RECOMMENDED FIRE EXTINGUISHING AGENTS AND SPECIAL PROCEDURES:

In case of fire, use water spray, dry chemical, foam or Carbon di-oxide. Water or foam may cause frothing. Use water for cooling fire exposed containers.

UNUSUAL OR EXPLOSIVE HAZARDS:

For fire involving this material, do not enter any enclosed or confined space without self-content breathing apparatus and proper protective equipments.

COMBUSTION PRODUCTS

Normal combustion produces carbon di-oxide, water vapour and may produce oxides of sulphur, nitrogen & phosphorus. Incomplete combustion may produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

PROCEDURES IN CASE OF BREAKAGE OR LEAKAGE:

Stop the source of leak and ventilate the area. Use protective clothing and respirator. Cover spill with plenty of inert absorbent material. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water. Prevent contamination with ground water or surface water.

7. HANDLING AND STORAGE

Keep containers closed when not in use. Do not heat, weld or drill containers. Water contamination should be avoided.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYES : No special eye protection is necessary, however suitable safety goggles are recommended.

SKIN : Exposed employees should exercise personal hygiene such as cleaning of exposed skin and clothing with soap and water. Suitable protective clothing and gloves should be used while handling used engine oil.

| | | |
|-----------------|---|--|
| INHALATION | : | Though respiratory protection normally not required, approved respirator is recommended in case of air-borne concentration exceeding the normal exposure limit standards due to operating condition. |
| VENTILATION | : | Use adequate ventilation to minimise the concentration of mineral oil mist. |
| EXPOSURE LIMITS | : | ACGIH TLV for mineral oil mist is 5 mg/m ³ for a daily 8 hrs. exposure. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--------------------------------|---|-------------------|
| BOILING POINT °C | : | Not determined |
| VAPOUR PRESSURE (mmHg @ 25 °C) | : | Not determined |
| DENSITY kg/litre AT 20°C | : | 0.8956 |
| VAPOUR DENSITY | : | Not determined |
| APPEARANCE AND ODOUR | : | Brown Liquid |
| pH OF UNDILUTED PRODUCT | : | Not determined |
| SOLUBILITY IN WATER | : | Sparingly soluble |
| PERCENT VOLATILE BY VOLUME | : | Unknown |
| EVAPORATION | : | Not determined |
| VISCOSITY | : | 170 cSt @ 40°C |

10. STABILITY & REACTIVITY

| | | |
|---------------------------|---|----------------|
| HAZARDOUS POLYMERISATIONS | : | Will not occur |
|---------------------------|---|----------------|

THE MATERIAL REACTS VIOLENTLY WITH: (If others is checked below, see additional comments in Section 5)

| | | | |
|----|--------|------------|------------------|
| -- | Air | -- | Water |
| -- | Heat | -- | Strong oxidizers |
| -- | Others | <u>xxx</u> | None of these |

PRODUCTS EVOLVED WHEN SUBJECTED TO HEAT OR COMBUSTION:

Carbon di-oxide, water vapour, oxides of sulphur, nitrogen & phosphorus, aldehydes and ketones. Incomplete combustion may evolve carbon monoxide.

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION

No product toxicology data is available. The hazard evaluation was based on data from similar materials

SKIN IRRITATION

No product toxicology data is available. The hazard evaluation was based on data from similar materials.

DERMAL TOXICITY

No product toxicology data is available. The hazard evaluation was based on data from similar materials.

RESPIRATORY/INHALATION

No product toxicology data is available. The hazard evaluation was based on data from similar materials

INGESTION

No product toxicology data is available. The hazard evaluation was based on data from similar materials.

12. ECOLOGICAL INFORMATION

No specific ecotoxicity data on this product are available. This material may pose environmental risks common to oil spills.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Place contaminated material in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material

REMARKS:

This material may pose environmental risks common to oil spills.

14. TRANSPORT INFORMATION

UN NUMBER : Not available
HAZCHEM CODE : Not available
DANGEROUS GOODS CLASS : Not available

SPECIFIC PRECAUTIONARY TRANSPORT MEASURES AND CONDITIONS:
Not available

15. REGULATORY INFORMATION

REGULATIONS SPECIFICALLY APPLICABLE TO THE CHEMICAL PRODUCT

COMMONWEALTH OF AUSTRALIA

Respirators must follow AS1715/1716 standard for approved respirators

NEW ZEALAND

Respiratory must follow NZSS 2209/2266 standard for approved respirators

INTERNATIONAL (ALL COUNTRIES)

In the absence of local approved authorities follow U.S. NIOSH/MSHA, U.K BSI, Australian AS1715/1716 or New Zealand NZSS 2209/2206 standards.

AUSTRALIA POISON SCHEDULE : No data available
NZ DANGEROUS GOODS CLASS : No data available
NZ TOXIC SUBSTANCES SCHEDULE : No data available

16. OTHER INFORMATION

No specific notes on this product

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is upto the manufacturer/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. The B.P.C.L. makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.