

BHARAT PETROLEUM CORPORTION LIMITED

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MATERIAL SAFETY DATA SHEET MAK 4T ZIP 10W-30

CHEMICAL PRODUCT & COMPANY IDENTIFICATION

TRADE NAME : MAK 4T ZIP 10W-30

PRODUCT CODE : Not Applicable

SUPPLIER : Bharat Petroleum Corporation Limited

4&6, Currimbhoy Road, Ballard Estate, Mumbai - 400 001, INDIA

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CHEMICAL DESCRIPTION: Lubricating Oil, Petroleum derived containing additives

2. COMPOSITION AND INFORMATION ON INGREDIENTS

CHEMICAL OR COMMON NAME	<u>CAS</u> <u>NUMBER</u>	RANGE IN <u>PERCENT</u>
A) Highly refined HVI base oils		80 - 85
B) Additives containing detergents dispersants, Viscosity Index Improvers, Rust & Oxidation Inhibitors, Pour Point Depressants and Antifoam Agents	Not Applicable for mixtures	15 - 20

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 omitting 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) : 216 (COC) - Typical

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/m³ for a daily

8 hrs. exposure.

PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT °C : Not determined VAPOUR PRESSURE (mmHg @ 25 °C) : Not determined

DENSITY kg/litre AT 15°C (Typical) : 0.8776

VAPOUR DENSITY : Not determined APPEARANCE AND ODOUR : Clear Liquid pH OF UNDILUTED PRODUCT : Not determined SOLUBILITY IN WATER : Sparingly soluble

PERCENT VOLATILE BY VOLUME : Unknown

EVAPORATION : Not determined VISCOSITY : 68 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
Others
Strong oxidizers
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. OTHER INFORMATION

No specific notes on this product

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