

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name MAK TCPF 54/60/62

Product type Temporary Corrosion Preventive Fluid

Product Supplier Bharat Petroleum Corporation Limited,

4 & 6, Currimbhoy Road, Ballard Estate,

Mumbai – 400 001. Maharashtra.

India.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation description Product Type:Mixture of chemicals
Rust Preventive Oil.

The chemical identity of some or all the ingredients is confidential business information and is being withheld. In the event of a medical emergency, compositional information will be provided to medical staff.

3. HAZARDS IDENTIFICATION

Human health hazards

If oil is swallowed liquid paraffin should be given to

minimise gastro intenstinal absorption.

Emetics is contra-indicated because it may causes the oil to inhale and lead to aspiration pneumonia. Not expected to cause eye irritation, but it is recommended to prevent direct exposure of workers to mineral oils vapours to eyes during operation involving the use of this liquid. The coating should be conducted in well

ventilated conditions.

Environmental hazards Not readily biodegradable. Expected to have a high potential

to bioaccumulate.

Other information Not classified as dangerous for supply or conveyance. Keep

containers closed when not in use.

4. FIRST AID MEASURES

Symptoms and effects Not expected to give rise to an acute hazard under normal

conditions of use

First Aid – Inhalation In the event of dizziness or nausea, remove casualty to fresh

air. If symptoms persist, obtain medical attention.

First Aid – Skin Remove contaminated clothing and wash affected skin

thoroughly with copious quantities of soap & water. Do not use solvent for cleaning. If persistent irritation occurs, obtain medical attention. Do not reuse contaminated clothing or

shoes until thoroughly decontaminated.

First Aid – Eye Flush eye with copious quantities of water at least for 15

minutes. If persistent irritation occurs, obtain medical

attention.

First Aid - Ingestion DO NOT INDUCE VOMITING. Give two glasses of water

along with liquid paraffin and get immediate medical

attention

Advice to physicians Treat sympotomatically, aspiration into the lungs may result in

chemical pneumonitis. Dermatitis may result from prolonged

or repeated exposure.

5. FIRE FIGHTING MEASURES

Specific hazards Combustion is likely to give rise to a complex mixture of

airborne solid and liquid particulates and gases, including carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds. Wearing self content breathing

apparatus

Extinguishing media CO₂ Dry Chemicals Jet. Cool water can be used and

protect the exposed material

Protective equipment Trained personnel wearing breathing apparatus should deal

with fires in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Avoid contact with skin and eyes.

Personal protection Wear impermeable gloves and boots.

Environmental precautions Prevent from spreading or entering into drains, ditches or

rivers by using sand, earth or other appropriate barriers. Inform local authorities if this cannot be prevented. Pick up free liquid for re-cycling or disposal. The residual oil

can be transferred to another containers.

Clean-up methods – small spillage Absorb liquid with sand or earth, Sweep up and remove to a

suitable, clearly marked container for disposal in accordance

with local regulations.

Clean-up methods – large spillage Prevent from spreading by making a barrier with sand, earth or

other containment material. Reclaim liquid directly or in an

absorbent. Dispose of as for small spills.

7. HANDLING AND STORAGE

Handling Carry out a health risk assessment to determine safe handling

procedures and equipment that are necessary to avoid contact

and that are appropriate to the job. Prevent spillages.

Storage Store in a cool, dry, well-ventilated place. Use properly

labeled and close-able containers. Avoid direct sunlight, heat

sources, and strong oxidizing agents.

Storage temperature 0 °C minimum to 27 °C maximum

Recommended materialsUse mild steel or high density polyethylene (HDPE) for

containers or container linings.

Unsuitable materials Avoid PVC for containers or container linings.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering control measures Exposure limit of 5 mg/m³ for oil mist applies (TWA, 8h-

workday) recommended based upon the ACGIH TLV (Analysis according to US NIOSH method 5026, NIOSH Manual of analytical methods, 3rd edition). Use local exhaust ventilation to control mists or vapors. Additional ventilation or exhaust may be required to maintain concentrations below

recommended exposure limits.

Hygiene measures Wash hands before eating, drinking, smoking or using the

toilet and when leaving work.

Respiratory protection Carry out a health risk assessment to determine personal

protection equipment that is necessary to avoid contact and

exposure and that is appropriate to the job.

Hand protection Wear PVC or nitrile rubber gloves.

Eye protection Wear safety glasses or full face shield if splashes are likely to

occur.

Body protection Minimise all forms of skin contact, Wear overalls to minimise

contamination of personal clothing. Long sleeve shirt is recommended.. Launder overalls and undergarments before

use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid at ambient temperature.

Colour Light yellow to dark brown liquid

Odour Petroleum Odour

Solubility in solvents Soluble in organic solvents/petroleum solvents

Solubility in water Insoluble

Kinematic Viscosity at 40°C, cSt 1.5-2.0

Specific gravity, 29.5 0.78-0.85

Flash point, °C (COC) 32 min.

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10. STABILITY/REACTIVITY

Stability Stable

Conditions to avoid Extremes of temperature and direct sunlight

Materials to avoid Acids, oxidizing agents

Hazardous decomposition products Hazardous decomposition products are not expected to form

during normal storage.

11 TOXICOLOGICAL INFORMATION

Acute toxicity - Inhalation Not considered to be Inhalation hazard under normal

conditions of use.

Eye Irritation Expected to be slightly irritant

Skin irritation Expected to be slightly irritant, prolonged or repeated skin

contact may cause dermatitis.

Respiratory Irritation If mists are inhaled, slight irritation of the respiratory tract

may occur

Skin Sensitization Not expected to be a skin sensitizer

12. ECOLOGICAL INFORMATION

Basis of assessment Ecotoxicological data have not been determined specifically

for this product. Information given is based on the knowledge of the components and the ecotoxicology of similar products.

Mobility Liquid under most environmental conditions.

Persistence/degradability Not readily biodegradable. Major constituents are expected to

inherently biodegradable, but the product contains components

that may persist in the environment.

Bioaccumulation Has the potential to bioaccumulate

13. DISPOSAL CONSIDERATIONS

Waste disposal Used or waste oil should be recycled or disposed of in

accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the contractor to deal satisfactorily with used oil should be

established beforehand.

Product disposal As for waste disposal.

Container disposal 200 litre drums should be drained and returned to the supplies

or sent to a drum reconditioner without removing or defacing

marking or labels.

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14. TRANSPORT INFORMATION

Not dangerous for conveyance under UN, IMO, ADR/RID and IATA/ICAO codes.

15. REGULATORY INFORMATION

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16. OTHER INFORMATION

Compiled By P&AD Department,

Bharat Petroleum Corporation Limited, "A" Installation, Sewree (East),

Mumbai - 400 015.

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