

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name MAK SPINDLE OIL 22

Product type Spindle bearings lubricating oil – Mineral oil based

Product Supplier Bharat Petroleum Corporation Limited,

4 & 6, Currimbhoy Road, Ballard Estate,

Mumbai – 400 038, Maharashtra

India.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation descriptionBlend of highly refined mineral oils and performance

additives.

A. Highly Refined Base Oils. 99 – 99.5 % wt.

B. Additives <1 % wt.

The chemical composition of the additive used in finished oil is confidential in nature and the details are not disclosed. However, the composition details will be provided to medical staff in case of emergency.

3. HAZARDS IDENTIFICATION

Human health hazardsNo specific hazards under normal use conditions.

Exposure limit for oil mist applies. Prolonged or

repeated exposure may give rise to dermatitis.

Safety hazards Not classified as flammable, but will burn.

Environmental hazards Not readily biodegradable. Expected to have a high

potential to bioaccumulation.

Other information Not classified as dangerous for supply or conveyance.

4. FIRST AID MEASURES

normal conditions of use

First Aid – Inhalation At ambient / normal handling temperatures, inhalation of

vapours is normally not a problem. 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

with soap and water. If persistent irritation occurs, obtain medical attention. If high-pressure injection injuries occur, obtain medical attention immediately.

First Aid – Eye Flush eye with copious quantities of water. If persistent

irritation occurs, obtain medical attention.

First Aid - Ingestion Wash out mouth with water and obtain medical

attention. DO NOT INDUCE VOMITING.

result in chemical pneumonitis. Dermatitis may result

from prolonged or repeated exposure.

5. FIRE FIGHTING MEASURES

Specific hazardsCombustion is likely to give rise to a complex mixture of

airborne solid and liquid particulate and gases, including carbon monoxide, oxides of sulphur, and unidentified

organic and inorganic compounds.

Extinguishing media Foam and dry chemical powder, Carbon dioxide, sand

and earth. Water can be used to cool and protect

exposed material.

Unsuitable extinguishing media Never use a water jet. Use of Halon extinguishers

should be avoided for environmental reasons.

Protective equipment Proper protective equipment including breathing

apparatus must be worn when approaching a fire in a

confined space.

6. ACCIDENTAL RELEASE MEASURES

eyes.

Personal protection Wear impermeable gloves, boots and safety glasses.

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.

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 spillage.

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

labeled and closable containers. Avoid direct sunlight,

heat sources, and strong oxidizing agents.

Storage temperature 0 °C minimum to 50 °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

operating procedures to avoid contact and exposure.

Apply engineering controls appropriate to the job.

Hygiene measures Wash hands before eating, drinking, smoking and using

the toilet.

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. Launder

overalls and undergarments regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Attention: The data below are typical values and do not constitute a specification.

Physical state Liquid at ambient temperature.

Colour Brown

Odour Characteristic mineral oil

Initial boiling point Expected to be above 130 °C.

Vapour pressure Expected to be less than 0.5 Pa at 20 °C

Density (Typical) 0.9080 g/ml at 15 °C

Vapour density (air = 1) Greater than 1

Kinematic Viscosity at 40 °C, cSt 22.1

Flash point, °C (COC) 176

Flammability limit - lower 1 % v/v

Flammability limit - upper 10 % v/v

Flammability limit - upper 10 % v/v

Auto-ignition temperature Expected to be above 320 °C

Solubility in water Negligible

10. STABILITY/REACTIVITY

Stability Stable

Conditions to avoid Extremes of temperature and direct sunlight

Materials to avoid Strong 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 IrritationExpected to be slightly irritantSkin irritationExpected to be slightly irritant

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

may occur

Skin Sensitization Not expected to be a skin sensitize

12. ECOLOGICAL INFORMATION

Basis of assessment Ecotoxicological data have not been determined

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

of similar products.

Mobility Liquid under most environmental conditions. Floats on

water, if it enters soil, it will absorb to soil particles and

will not be mobile.

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 bioaccumulation

13. DISPOSAL CONSIDERATIONS

Waste disposal Used or waste oil should 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 litres drums should be drained and returned to the supplies or sent to a drum re-conditioner without

removing or defacing marking or labels.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

EC Classification Not classified as dangerous under EC criteria

16. OTHER INFORMATION

Compiled By Product & Application Development Department,

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