

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product nameMAK SHOCK ABSORBER FLUID DS

Product type Shock Absorber Oil

Product Supplier Bharat Petroleum Corporation Limited,

4 & 6, Currimbhoy Road, Ballard Estate,

Mumbai – 400 001, Maharastra

India.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Preparation description Blend of highly refined mineral oils and Performance

additives.

A. Highly Refined Base Oils. 95-96% wt. **B.** Additives 4-5% 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 hazards No 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 bioaccumulate.

Other information Not classified as dangerous for supply or conveyance.

4. FIRST AID MEASURES

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.

MAK SHOCK ABSORBER FLUID DS BHARAT PETROLEUM CORPORATION LTD. First Aid - Ingestion Wash out mouth with water and obtain medical attention. DO

NOT INDUCE VOMITING.

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 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

Personal precautions Use adequate ventilation & avoid contact with skin and 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

Engineering control measures Carry out a health risk assessment to determine safe 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.

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. Launder overalls and

undergarments regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Liquid at ambient temperature.

Colour Yellowish

odour Characteristic mineral oil

Initial boiling point Expected to be above 280 °C.

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

Pour Point, °C -42

Vapour density (air = 1) Greater than 1

Kinematic Viscosity at 40 °C, cSt 12.7

Flash point, °C (PMCC) 180

Flammability limit - lower 1 % v/v

Flammability limit - upper 10 % v/v

Auto-ignition temperature Expected to be above 320 °C

Solubility in water Negligible

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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 Irritation Expected to be slightly irritant

Skin irritation Expected 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 sensitizer

12. ECOLOGICAL INFORMATION

Mobility

Basis of assessment Ecotoxicological data have not been determined specifically

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

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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 bioaccumulate

13. DISPOSAL CONSIDERATIONS

Product disposal

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.

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.

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 P&AD Department,

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