

# **MATERIAL SAFETY DATA SHEET**

#### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

**Product name** MAK HONEX A

**Product type**Mineral oil for metalworking application

**Product Supplier** Bharat Petroleum Corporation Limited,

4 & 6, Currimbhoy Road, Ballard Estate,

Mumbai – 400 001. Maharashtra.

India.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Preparation description**Blend of highly refined mineral oils and Performance

additives.

A. Highly Refined HVI Base Oils.B. Additives & Diluent3-6 % wt.94-97 % wt.

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 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

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

occur, obtain medical attention immediately.

MAK HONEX A BHARAT PETROLEUM CORPORATION LTD.

**PAGE 1 OF 5** 

Flush eye with copious quantities of water until irritation First Aid – Eye subsides. If persistent irritation occurs, obtain medical attention. Wash out mouth with water and obtain medical attention. DO First Aid - Ingestion 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 particulates and gases, including carbon monoxide, oxides of sulphur and unidentified organic and inorganic compounds. **Extinguishing media** Use Foam, water spray and dry chemical powder, Carbon dioxide, sand and earth may be used for small fires only. Unsuitable extinguishing media Use of Halon extinguishers should be avoided for environmental reasons. Protective equipment Fires in confined spaces should be dealt with by trained personnel wearing breathing apparatus. 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. Absorb liquid with sand or earth. Sweep up and remove to a Clean-up methods – small spillage 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 closable containers. Avoid direct sunlight, heat sources and strong oxidizing agents. Storage temperature 0 °C minimum to 50 °C maximum Use mild steel or high density polyethylene (HDPE) for **Recommended materials** 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/m<sup>3</sup> for oil mist applies based upon the

ACHGIH TLV.

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** Light brown

Odour Characteristic Phenolic odour

**Initial boiling point** 180°C

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

**Density (Typical)** 0.820 g/ml at 29.5°C

**Vapour density (air = 1)** Greater than 1

**Kinematic Viscosity at 40°C, cSt** 5.0 (typical)

Flash point, °C (COC) 110 min.

**Flammability limit - lower** 1 % v/v

Flammability limit - upper 10 % v/v

Auto-ignition temperature 290°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 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

Other information Prolonged and / or repeated contact with other products

containing mineral oils can result in defatting of the skin, particularly at elevated temperatures. This can lead to irritation and possibly dermatitis, especially under conditions of poor

personal hygene. Skin contact should be minimised

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 eco-toxicology 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 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.

MAK HONEX A BHARAT PETROLEUM CORPORATION LTD. PAGE 4 OF 5

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,

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

Mumbai - 400 015.

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