



Pakistan State Oil

# MATERIAL SAFETY DATA SHEET

## PSO MP GREASE

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

Product name	PSO MP GREASE NLGI 2
MSDS #	19-01
Product Use	Grease for industrial application For specific application advice see appropriate Technical Data Sheet or consult your PSO representative.
Supplier	Pakistan State Oil Co. Ltd. Lubricants Technical Services – L&C 7 <sup>th</sup> Floor, PSO House Khayaban-e-Iqbal, Clifton, Karachi, Pakistan. Tel. 92 21 99203866
EMERGENCY TELEPHONE NUMBER	+92 21 99206853
Revision No:	04
Revision Date:	March 28, 2023

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICALS & ADDITIVES	CONCENTRATION	INGREDIENTS
• HCO	Appropriate	Hydrogenated castor oil Flakes
• LBO 400 HVI	Appropriate	Highly refined petroleum distillates
• LiOH	Appropriate	Lithium Hydroxide monohydrate

### 3. HAZARDS IDENTIFICATION

- This material is not considered to be hazardous, but should be handled in accordance with good industrial hygiene and safety practices.
- Note: High Pressure Applications
- Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.
- See medical advice under first aid measures, section 4 of this MSDS.

### 4. FIRST-AID MEASURES

#### Eyes

- Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

#### Skin

- Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.
- Medical advice must be obtained urgently if product under high pressure has been injected through the skin.

#### Ingestion

- If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice

#### Inhalation

- If inhalation of mists, fumes or vapor causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.

#### Medical Advice

- Treatment should in general be symptomatic and directed to relieving any effects.
- Note: High Pressure Applications
- Injections through the skin resulting from contact with the product at high pressure constitute a major medical emergency.
- Injuries may not appear serious at first but within a few hours tissue become swollen, discolored and extremely painful with extensive subcutaneous necrosis



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- Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimize tissue loss and prevent or limit permanent damage. Note that high pressure may force the product considerable distances along tissue planes.

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## **5. FIRE-FIGHTING MEASURES**

- Use foam, dry powder or water fog. DO NOT USE water jets.
- Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.
- Water may be used to cool nearby heat exposed areas/objects/packages. Avoid spraying directly into storage containers because of the danger of boil-over.

### **Combustion Products**

- Toxic fumes may be evolved on burning or exposure to heat.
- See Stability and Reactivity, Section 10 of this Safety Data Sheet.

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## **6. ACCIDENTAL RELEASE MEASURES**

- Contain and recover spilled material using sand or other suitable inert absorbent material.
- It is advised that stocks of suitable absorbent material should be held in quantities sufficient to deal with any spillage, which may be reasonably anticipated.
- Spilled material may make surfaces slippery.
- Protect drains from potential spills to minimize contamination. Do not wash product into drainage system.
- In the case of large spills contact the appropriate authorities.
- In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.

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## **7. HANDLING AND STORAGE**

### **Handling Precautions**

- Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate.
- Avoid frequent or prolonged skin contact with fresh or used product.
- Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times.
- Wash hands thoroughly after contact.
- Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets.

### **Fire Prevention**

- Product contaminated rags; paper or material used to absorb spillages, represent a fire hazard, and should not be allowed to accumulate. Dispose of safely immediately after use.

### **Storage Conditions**

- Store under cover away from heat and sources of ignition.

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## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposure Limits**

- There is no appropriate occupational exposure limit for this material.
- Ensure good ventilation.
- Avoid, as far as reasonably practicable, inhalation of vapor, mists or fumes generated during use.
- If vapor, mists or fumes are generated, their concentration in the workplace air should be controlled to the lowest reasonably practicable level.

### **Protective Clothing**

- Wear face visor or goggles in circumstances where eye contact can accidentally occur.
- If skin contact is likely, wear impervious protective clothing and/or gloves.
- Protective clothing should be regularly dry cleaned. Change heavily contaminated clothing as soon as reasonably practicable; dry clean, launder and preferably starch before re-use. Wash any contaminated underlying skin with soap and water.

### **Respiratory Protection**

- Respiratory protection is unnecessary, provided the concentration of vapour, mists or fumes is adequately controlled.
- The use of respiratory equipment must be strictly in accordance with the manufacturers' instructions and any statutory requirements governing its selection and use.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Typical Values

Grades:	MP
Test Method Units	
Physical state	Grease
Color	Light brown
Odor	mild
Worked Penetration @ 25 °C	280
Dropping Point °C	180
NLGI	2

## 10. STABILITY AND REACTIVITY

- Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.
- Hazardous polymerization reactions will not occur.
- This material is combustible.

### Materials to Avoid

- Avoid contact with strong oxidizing agents.

### Hazardous Decomposition Products

- Thermal decomposition products will vary with conditions.
- Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### Eyes

- Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

### Skin

- Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

### Ingestion

- Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.

### Inhalation

- At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility.
- May cause irritation to eyes, nose and throat due to exposure to vapor, mists or fumes.
- May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal decomposition products occurs.

## 12. ECOLOGICAL INFORMATION

### Mobility

- Spillages may penetrate the soil causing ground water contamination.

### Persistence and degradability

- This product is inherently biodegradable.

### Bio-accumulative potential

- There is no evidence to suggest bioaccumulation will occur.

### Aquatic toxicity

- Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

## 13. DISPOSAL CONSIDERATIONS

- Where possible, arrange for product to be recycled.
- Dispose of via an authorized person/ licensed waste disposal contractor in accordance with local regulations.
- Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

## 14. TRANSPORT INFORMATION

- Not classified as hazardous for transport (ADR, RID, UN, IMO, IATA/ICAO).

## 15. REGULATORY INFORMATION

- Not classified as hazardous for supply.



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## **16. OTHER INFORMATION**

### **Compiled by:**

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Karachi

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