



Pakistan State Oil

# MATERIAL SAFETY DATA SHEET

## PSO SUGAR MILL OIL PLUS

### 1. Identification of the substance/preparation and of the company / undertaking

Product name	PSO SUGAR MILL OIL PLUS 3200, 3800, 4200
MSDS #	14-01
Product Use	Bitumen-based lubricant for open gears For specific application advice see appropriate Technical Data Sheet or consult your PSO representative.
Supplier	Lubricants Technology Pakistan State Oil Co. Ltd. 7 <sup>th</sup> Floor, PSO House Khayaban-e-Iqbal, Clifton, Karachi, Pakistan. Tel. 92 21 99203866
EMERGENCY TELEPHONE NUMBER	+92 21 99203753

### 2. Composition/information on ingredients

- Highly refined mineral oil (IP 346 DMSO extract < 3%) Proprietary performance additives.
- Asphalt

### 3. Hazards identification

- This material is not considered to be hazardous, but should be handled in accordance with good industrial hygiene and safety practices.

### 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.

#### 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.

### 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.



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- 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 vapor, 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:	3200	3800	4200
Test Method Units			
Physical state	Viscous liquid (Solid)	Viscous liquid (Solid)	Viscous liquid (Solid)
Color	Black	Black	Black
Odor	Mild	Mild	Mild
Kinematic viscosity @ 100°C ASTM D 445 mm <sup>2</sup> /s	85	100	152
Flash point (COC) ASTM D 92 °C	225	225	250



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## 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.

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## 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 diarrhea.

### 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.

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## 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.

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## 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.

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## 14. TRANSPORT INFORMATION

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

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## 15. REGULATORY INFORMATION

- Not classified as hazardous for supply.



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## 16. OTHER INFORMATION

**Compiled by:**

Lubricants Technology  
7<sup>th</sup> Floor, Khayaban-e-Iqbal  
Karachi

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