



**HINDUSTAN PETROLEUM CORPORATION LIMITED  
MUMBAI REFINERY  
MATERIAL SAFETY DATA SHEET COMPENDIUM**

Document Title: MSDS Compendium, Mumbai Refinery

Edition: 1

### 6.15 MSDS of 500 N-I

#### **Section 1: Chemical Product and Company Identification**

##### **1.1 Chemical Product Identifiers:**

|                     |             |
|---------------------|-------------|
| 1.1.1 Chemical Name | 500 Neutral |
| 1.1.1.1 Trade Name  | 500 N-I     |
| 1.1.2 CAS No.       | 64742-54-7  |

##### **1.2 Relevant identified uses of the chemical product and uses advised against**

|                          |                            |
|--------------------------|----------------------------|
| Relevant identified uses | Lubricating Oil Base Stock |
| Uses advised against     | Not Classified             |

##### **1.3 Details of the supplier of the safety data sheet**

|                                     |   |
|-------------------------------------|---|
| 1.3.1 Company Name                  | Hindustan Petroleum Corporation Limited                     |
| 1.3.2 Address                       | HPCL Mumbai Refinery, B D Patil Marg Chembur, Mumbai-400074 |
| 1.3.3 Contact No.                   | 022-25076605  |
| 1.3.4 Contact person in emergency   | Fire & Safety Shift Supervisor                              |
| <b>1.4 Emergency Telephone No.:</b> | 022-25076606  |

#### **Section 2: Hazards Identification**

##### **2.1 Classification of the chemical product:** Not classified

##### **2.2 Label Elements:** Not classified

##### **2.2.1 Precautionary Statement(s):**

| Precautionary statements – response |  |
|-------------------------------------|--|
| P301+310                            | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician |
| P405                                | Store locked up.   |

##### **2.3 Other hazards except those mentioned in DGCP Rules, 201:**

##### **Results of PBT and vPvB assessment**

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Section 3: Composition/Information on Ingredients**

##### **3.1 Name of Product:** 500 N-I

##### **3.1.1 Systematic Chemical Name or Trivial Name:** 500 Neutral

##### **3.1.2 CAS No.:** 64742-54-7

#### **Section 4: First-Aid Measures**

##### **4.1 Description of first aid measures**



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### 4.1.1 Inhalation

Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen.

### 4.1.2 Skin Contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

### 4.1.3 Eye Contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention.

### 4.1.4 Ingestion

Get medical attention immediately! Immediately rinse mouth and provide fresh air.

### 4.2 Most important symptoms and anticipated effects both acute and delayed

Not Classified.

### 4.3 Advice for immediate medical attention and special treatment needed

None

## Section 5: Firefighting Measures

### 5.1 Extinguishing Media



- **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

- **Unsuitable extinguishing media**

Water jet

### 5.2 Special hazards arising from the chemical product:

When heated and in case of fire, corrosive vapours/gases may be formed.

### 5.3 Hazardous Combustion Products:

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Aldehydes, Ketones, Nitrous gases (NO<sub>x</sub>)

### 5.4 Specific Extinguishing Methods

For this substance/mixture no limitations of extinguishing agents are given

#### 5.4.1 Advice for Fire-Fighters

NOTE! Use air-supplied respirators to protect against gases/fumes. Use water SPRAY only to cool containers! Do not put water on leaked material.

#### 5.4.2 Special protective equipment for fire-fighters:

None



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### Section 6: Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:



Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2 Environmental precautions:

Do not allow ANY environmental contamination. Do not discharge into drains, water courses or onto the ground.

#### 6.3 Methods and materials for containment and cleaning up:

##### Advice on how to clean up a spill

Collect with absorbent, non-combustible material into suitable containers.

#### 6.4 Reference to other sections:

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### Section 7: Handling and Storage

#### 7.1 Precautions for Safe Handling:

Avoid spilling, skin and eye contact.



Wear full protective clothing for prolonged exposure and/or high concentrations. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

#### 7.2 Conditions for Safe Storage, including requirement of hazardous area classification and any incompatibilities:

Store in tightly closed original container in a dry, cool and well-ventilated place.

### Section 8: Exposure Controls and Personal Protection

#### 8.1 Control Parameters

**National Limit Values:** Not Classified

#### 8.2 Exposure Controls

##### 8.2.1 Personal Protective Equipment:



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Use of PPE to be ensured by working crew for exposure control. Different PPEs for exposure control of different body parts is described in the next section.

### 8.2.2 Suggestions for protection of eye, skin and body and respiratory system:

- Eye/face protection



Use safety goggle with side protection.

- Skin protection



#### a. Hand protection

Chemical resistant gloves required for prolonged or repeated contact.

- Respiratory protection: In case of inadequate ventilation use suitable respirator. Wear mask supplied with: Gas cartridge suitable for organic substances.



## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

|  |  |
|--|--|
| Physical state   | Viscous liquid                         |
| Colour   | Bright and Clear                       |
| Odour  | like: - Gasoline                       |
| Melting point/freezing point                             | Not Classified                         |
| Boiling point or initial boiling point and boiling range | N.A.                                   |
| Flammability   | Not Classified                         |
| Lower and upper explosion limit                          | Not Classified                         |
| Flash point  | 224 °C (ASTM D 92)                     |
| Pour point   | -1 °C                                  |
| Auto-ignition temperature                                | Not Classified                         |
| Decomposition temperature                                | not relevant                           |
| pH (value)   | not determined                         |
| Kinematic viscosity                                      | 9.5 cSt 11.5 cst @ 100 °C (ASTM D 445) |



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|  |                |
|--|----------------|
| Viscosity  | 95             |
| <b>Solubility(ies)</b>   |                |
| Water solubility   | Not Classified |
| <b>Partition coefficient</b>   |                |
| Partition coefficient n-octanol/water (log value):   | Not Classified |
| Soil organic carbon/water (log KOC)  | Not Classified |
| Vapour pressure  | N.A.           |
| <b>Density and/or relative density</b>   |                |
| Density  | 0.8811 @ 15°C  |
| Relative vapour density  | Not Classified |
| Particle characteristics   | Not Classified |
| <b>Other safety parameters</b>   |                |
| Oxidising properties   | none           |
| <b>9.2 Other Information:</b><br><b>Information with regard to physical hazard classes:</b><br>There is no additional information. |                |

## Section 10: Stability and Reactivity

### 10.1 Reactivity

Not Classified.

### 10.2 Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3 Possibility of hazardous reactions

Not Classified.

### 10.4 Conditions to avoid

Not Classified.

### 10.5 Incompatible materials

Strong oxidising substances.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## Section 11: Toxicological Information

**11.1 Information on Toxicological Effects:** Symptoms related to the physical, chemical and toxicological characteristics

- If inhaled



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Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

**11.1.1 Acute Toxicity:**

| Exposure route | Endpoint | Value       | Species |
|----------------|----------|-------------|---------|
| Oral           | LD50     | >5000 mg/kg | rat     |
| Dermal         | LD50     | >5000 mg/kg | rabbit  |

**11.1.2 Skin Corrosion/ Irritation:** No specific health warnings noted.

**11.1.3 Serious Eye Damage/ Eye Irritation:** No specific health warnings noted.

**Section 12: Ecological Information**

**12.1 Toxicity:** Toxic to aquatic life with long lasting effects.

| Endpoint | Value      | Species               | Exposure time |
|----------|------------|-----------------------|---------------|
| LC 50    | >1000 mg/l | fish                  | 96 h          |
| EC 50    | >1000 mg/l | aquatic invertebrates | 48 h          |
| IC 50    | >1000 mg/l | ALGAE                 | 72 h          |

**12.2 Persistence and Degradability:** The product is not readily biodegradable.

**12.3 Bio Accumulative Potential:** Will not bio-accumulate.

**12.4 Mobility in Soil:** The product is insoluble in water and will spread on the water surface.

**12.5 Other adverse effects:** Data are not available

**Section 13: Disposal considerations**

**13.1 Waste Treatment Method:** Dispose of waste and residues in accordance with local authority requirements.



**13.1.1 Contaminated Packaging:**

Incinerate with provision for removal of effluent gases by scrubber.

**13.1.2 Local Regulations (if any) on Disposal:** Waste material must be disposed of in accordance with the Hazardous Waste Management Rules-2016

**Section 14: Transport Information**



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The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### **Section 15: Regulatory Information**

**15.1 Safety, health and Environmental:** Regulations/legislation specific for the substance or mixture relevant provisions of **Non - Toxic/Flammable Substance** are applicable

### **Section 16: Other Information**

**16.1 Date of Issue:** March 2023

**16.2 Necessity of Specific Training:** Working and handling personnel to be trained on following aspects

- i. Chemical hazard awareness
- ii. Safety control measures including PPE
- iii. Housekeeping, hygiene and chemical storage
- iv. Responding to any kind of emergency

**16.3 Disclaimer:** This M.S.D.S and the information it contains is offered to you in good faith as accurate. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents.