Material Safety Data Sheet
High Speed Diesel

MATERIAL SAFETY DATA SHEET
Diesel oil/HSD

1. Chemical identity

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Chemical classification</th>
<th>Synonyms</th>
<th>Trade name</th>
<th>Formula Range</th>
<th>C.A.S. NO</th>
<th>U.N.NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel Oil</td>
<td>Flammable liquid</td>
<td>Automotive Diesel Oil</td>
<td>HSD</td>
<td>C13 - C18</td>
<td>68476-30-2</td>
<td>1202</td>
</tr>
</tbody>
</table>

Regulated identification
- Shipping name: HSD
- Hazchem code: class 3
- Hazardous waste: N.A.

Hazardous ingredients

<table>
<thead>
<tr>
<th>Diesel</th>
<th>C.A.S.NO. 68476-30-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene Trace</td>
<td>71-43-2</td>
</tr>
<tr>
<td>Naphthalene Trace</td>
<td>91-20-3</td>
</tr>
<tr>
<td>Sulphur Trace</td>
<td>7704-34-9</td>
</tr>
</tbody>
</table>

Diesel is complex mixture of hydrocarbons. It’s exact composition depends on the source of crude oil from which it is produced and the refining methods used.

2. Physical and chemical data

- Boiling point/Range (deg.C): 215 - 376
- Physical state: Liquid
- Appearance: yellowish brown
- Melting/freezing point (deg.C): N.A.
- Vapour pressure: 2.12 to 26mm Hg at 21 deg C.
- Odour: Perceptible odour
- Vapour density: N.A.
- Solubility in water @ 30 deg.C: Insoluble
- Specific gravity: 0.86 - 0.90 at 20 deg C
- Others: Pour Point: 6 - 18 deg. C.

3. Fire and explosion Hazard data

<table>
<thead>
<tr>
<th>Flammability: Yes</th>
<th>LEL: 0.6%</th>
<th>Flash point(deg C): 32 (OC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG Flammability: class 3</td>
<td>UEL: 6%</td>
<td>Flash point(deg C): N.A. (CC)</td>
</tr>
</tbody>
</table>

- Auto Ignition Temp: 225 deg. C
- Explosion sensitivity to impact: not sensitive to Mechanical Impact.
- Explosion sensitivity to static electricity: For vapors sensitivity exist
- Hazardous Combustion Products: carbon monoxide, Nitrogen oxide, and other aromatic hydrocarbons
- Hazardous Polymerization: N.A.
Material Safety data sheet
High Speed Diesel

<table>
<thead>
<tr>
<th>Combustible liquid:</th>
<th>Yes</th>
<th>Explosive material:</th>
<th>Yes</th>
<th>Corrosive material:</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable material ;</td>
<td>yes</td>
<td>Oxidiser:</td>
<td>N.A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pyrophoric material:</td>
<td>N.A.</td>
<td>Organic peroxide:</td>
<td>N.A.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Reactivity data

Chemical stability: Stable
Incompatibility with other material: oxidizers such Peroxides , Nitric acid and Perchlorates
Hazardous reaction products: on fire it will liberate some amount of carbon monoxide, sulphur dioxide Nitrogen oxide. and other aromatic hydrocarbons

5. Health Hazard data

Routes of entry: Inhalation, Skin absorption, ingestion
Effects of Exposure / symptoms: excessive inhalation Vapors cause rapid breathing, excitability, staggering, headache, fatigue, nausea and vomiting, dizziness, drowsiness, narcosis convulsions, coma,
Skin Contact: Skin-dryness, cracking, irritation eyes watering, stinging and inflammation.

Emergency treatment: In case of eye or Skin contact, flush with plenty of water. Remove soaked clothing. In case of excessive inhalation move the victim to fresh air, obtain medical assistance

L.D50 (Oral-Rat) : > 5g/kg
L.C50: (rat 4hrs) 5g/m3
Permissible Exposure limit: N.A.
Odour threshold: N.A.
TLV (ACGIH) : 800 ppm
STEL: N.A.

NFPA Hazard signals
<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity/Stability</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

6. Preventive measures

Personal Protective equipment: Canister type gas mask. PVC or Rubber. Goggles giving complete protection to eyes. Eye wash fountain with safety shower.
Handling and storage precautions: Do not expose to heat and naked lights, keep containers and valves closed when not in use.

7. Emergency and first aid measures

Fire:
Material Safety data sheet
High Speed Diesel

**Fire extinguishing media:** Foam, Carbon dioxide, Dry Chemical Powder. Water may be used to cool fire-exposed containers.

**Special procedure:** Shut off leak, if safe to do so. Keep non-involved people away from spill site. Eliminate all sources of ignition.

**Unusual hazards:** It will spread along the ground and collect in sewers.

**Exposure:**

**Skin contact:** In case of contact with skin flush with fresh water, remove containment clothing.

**Inhalation:** In case of excessive inhalation move the victim to fresh air. If problem in breathing give artificial respiration; give oxygen. Obtain medical assistance.

**Ingestion:** Give water to conscious victim to drink; do not induce vomiting.

**Antidotes/Dosages:** N.A.

**Spills:**

**Steps to be taken** Shut off leak, if safe to do so. Keep non-involved people away from spill site. Eliminate all sources of ignition. Prevent spill entering into sewers. For major spillage contact emergency services.

**Waste disposal method:** N.A.

---

**8. Additional Information /reference**

---

**9. Manufacture/Suppliers Data**

<table>
<thead>
<tr>
<th>Manufacture (Name Of Firm.)</th>
<th>Hindustan Petroleum Corporation</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Supplier/Dealers Data.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Mailing address</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Telephone</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Contact Persons</th>
</tr>
</thead>
</table>

---

**10. DISCLAIMER**

Information contained in this material data sheet is believed to be reliable but no representation, guaranty or warranties of any kind are made for suitability for particular application or result obtained from it. It is up to the seller to ensure the product sold by them is relevant to information contained in MSDS.