

**Material Safety data sheet**  
High Speed Diesel

**MATERIAL SAFETY DATA SHEET**  
Diesel oil/HSD

**1. Chemical identity**

<i>Chemical name:</i> Diesel Oil		<i>Chemical classification:</i> Flammable liquid	
<i>Synonyms:</i> Automotive Diesel Oil		<i>Trade name:</i> HSD	
<i>Formula Range:</i> C <sub>13</sub> - C <sub>18</sub>		<i>C.A.S. NO.</i> 68476-30-2.	<i>U.N.NO.</i> 1202
<i>Regulated identification</i>		<i>Shipping name:</i> HSD	
<i>Codes/Label:</i> .		<i>Hazchem code class 3</i>	
		<i>Hazardous waste :</i> N.A.	
<i>Hazardous ingredients</i>	<i>C.A.S.NO.</i>	<i>Hazardous ingredients</i>	<i>C.A.S.NO.</i>
<i>Diesel</i>	68476-30-2	<i>Benzene Trace</i>	71-43-2
		<i>Naphthalene Trace</i>	91-20-3
		<i>Sulphur Trace</i>	7704-34-9
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**

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

**3. Fire and explosion Hazard data**

<i>Flammability:</i> Yes	<i>LEL:</i> 0.6%	<i>Flash point(deg C) :</i> 32 (OC)
<i>TDG Flammability:</i> class 3 .	<i>UEL:</i> 6%	<i>Flash point(deg C) :</i> N.A. (CC)
<i>Auto Ignition Temp :</i> 225 deg. C		
<i>Explosion sensitivity to impact:</i> not sensitive to Mechanical Impact.		
<i>Explosion sensitivity to static electricity:</i> For vapors sensitivity exist		
<i>Hazardous Combustion Products:</i> carbon monoxide, Nitrogen oxide. and other aromatic hydrocarbons		
<i>Hazardous Polymerization:</i> N.A.		

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<i>Combustible liquid:</i> Yes	<i>Explosive material:</i> Yes	<i>Corrosive material:</i> No
<i>Flammable material ;</i> yes	Oxidiser: N.A.	
<i>Pyrophoric material:</i> N.A.		<i>Organic peroxide:</i> N.A.

#### 4. Reactivity data

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

#### 5. Health Hazard data

<i>Routes of entry:</i> : Inhalation, Skin absorption ,ingestion				
<i>Effects of Exposure / symptoms:</i> excessive inhalation Vapors cause rapid breathing, excitability, staggering, headache, fatigue, nausea and vomiting, dizziness, drowsiness, narcosis convulsions, coma,				
<b>Skin Contact:</b> Skin-dryness, cracking, irritation eyes watering, stinging and inflammation.				
<i>Emergency treatment:</i> 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				
<i>L.D<sub>50</sub> (Oral-Rat) :</i> > 5g/kg		<i>L.C<sub>50:</sub> (rat 4hrs)</i> 5g/m <sup>3</sup>		
<i>Permissible Exposure limit:</i> N.A.		<i>Odour threshold:</i> N.A.		
<i>TLV (ACGIH) :</i> 800 ppm		<i>STEL:</i> N.A.		
<i>NFPA Hazard signals</i>	<i>Health</i>	<i>Flammability</i>	<i>Reactivity/Stability</i>	<i>Special</i>
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#### 6. Preventive measures

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

#### 7. Emergency and first aid measures

<b>Fire:</b>
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*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 in to sewers, for Major spillage contact Emergency services

*Waste Disposal method:* N.A.

## 8 . Additional Information /reference

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## 9 . Manufacture/Suppliers Data

Manufacture( Name Of Firm. ) : Hindustan Petroleum Corporation

Supplier/Dealers Data.

Name

Mailing address

Telephone

Contact Persons

## 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 o be obtained from it. It is up the seller to ensure the Product sold by them is relevant to information contained in MSDS