

# Material Safety Data Sheet

## Gasoline

### MATERIAL SAFETY DATA SHEET

#### Gasoline/Petrol

#### 1. Chemical identity

<i>Chemical name:</i> Petrol		<i>Chemical classification:</i> Flammable liquid	
<i>Synonyms:</i> Gasoline, Motor spirit		<i>Trade name:</i> Petrol	
<i>Formula:</i> mixture of hydrocarbons		<i>C.A.S. NO.</i> 8006-61-9.	<i>U.N.NO.</i> 1203.
<i>Regulated identification</i>	<i>Shipping name:</i> Gasoline, Petrol		
<i>Codes/Label:</i>	<i>Hazchem code:</i> class 3		
	<i>Hazardous waste ID No:</i> N.A.		
<i>Hazardous ingredients</i>	<i>C.A.S.NO.</i>	<i>Hazardous ingredients</i>	<i>C.A.S. NO.</i>
<i>Gasoline</i>	8006-61-9	<i>n-Hexane</i> Trace	110-54-3
		<i>Benzene</i> Trace	71-43-2
Gasoline 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> 30 to 215 C	<i>Physical state:</i> Liquid	<i>Appearance:</i> Orange, red
<i>Melting/freezing point (deg.C) :</i> -90 to -75.		
<i>Vapor pressure:</i> 300 to 600 mm Hg (20 deg C)		
<i>Odor:</i> Characteristic odor		
<i>Vapor density:</i> 3-4		
<i>solubility in water @ 30 deg.C:</i> 1-100ppm /100 ml water		
<i>Specific Gravity</i> 0.75-0.85 at 20 deg C.		<i>ph</i> NA
<i>Others:</i> Floatability (water): Floats;		

#### 3. Fire and explosion Hazard data

<i>Flammability:</i> yes ignited by Sparks/flames.	<i>LEL:</i> 1.4%	<i>UEL:</i> 7.6%.
<i>Flash point(deg C) :</i> typically about -38 to -42 (CC)		
<i>TDG Flammability:</i> Class 3		
<i>Ignition Temp (deg C) :</i> 456		
<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.		
<i>Combustible liquid:</i> Yes	<i>Explosive material:</i> Yes	<i>Corrosive material:</i> No

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<i>Flammable material:</i> Yes	<i>Oxidiser:</i> N.A.	<i>Others:</i> 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 Perchorates
<i>Hazardous reaction products:</i> on fire it will liberate some amount carbon monoxide, 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> <b>Inhalation:</b> 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 contact with Skin flush with fresh water, remove containment clothing, in case of excessive inhalation move the victim to fresh air, obtain medical assistance.				
<i>TLV (ACGIH) :</i> 300 ppm		<i>STEL:</i> 500		
<i>Permissible Exposure limit: L.D<sub>50</sub> (Oral-Rat) :</i> 13.6 g/kg		<i>L.C<sub>50</sub>:</i> (rat for 4hrs) 43g/m <sup>3</sup>		
<i>Odor threshold:</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> Gloves, eye protection preferred.
<i>Handling and storage precautions:</i> eliminate all sources of ignition at storage, ensure good ventilation, ground and bond the containners

#### 7. Emergency and first aid measures

<b>Fire:</b>
<i>Fire extinguishing media:</i> Foam, Carbon dioxide, Dry Chemical Powder. Water may be used to cool fire-exposed containers.
<i>Special procedure:</i> Shut off leak, if safe to do so, .Keep non-involved people away from spill site. Issue warning: “ FLAMMABLE”. Eliminate all sources of ignition.
<i>Unusual hazards:</i> Vapor heavier than Air it will spread along the ground and collect in sewers
<b>Exposure:</b>

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*First aid measures:*

**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/dealer Data.
Name
Mailing address
Telephone
Contact Persons

### 10 . DISCLAIMER

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