

GASOLINE
MATERIAL SAFETY DATA SHEET

1. IDENTITY OF MATERIAL

Product Name : Petrol (MS, MS Bharat-IV, MS Bharat-III)		Chemical Designation: A complex mixture of hydrocarbon.	
Trade Name : MS, MS Bharat-IV, MS Bharat-III.		Synonyms : Gasoline, Motor Spirit.	
Formula : NO	Label : Category Class: 3	CAS Number: 8002-05-9	UN Number : 1203
Regulated Identification : UN Number 1203	Shipping Name Codes / Label : Class A Flammable liquid. Exits in vapour form at ambient Temperature.		Hazchem Code : 2RE

PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid	Boiling Point in ° C.: 30 °C to 180 °C	Vapour Pressure at 35 ° C mm Hg : ----
Appearance(Colour) : Water White to straw tint.	Melting / Freezing Point in degree C : No	Evaporation rate at 30 ° C : ----
Odour : Pungent	Vapour Density (Air-1) : 4.0. (Vapour Heavier Than Air)	Solubility in water at 30 degree C : Insoluble
Others (Corrosivity, Etc)	Specific Gravity (Water-1) : 0.69 to 0.77. (Liquid Lighter Than Water)	pH : Neutral.

FIRE AND EXPLOSIVE HAZARD DATA

Explosion / Flammability : Flammable	Flash Point ° C: - 45° C	Flammability Range : 1.3% to 7.6%	Autoignifition Temperature ° C : 257 °C
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REACTIVE HAZARDS

	Impact : Stable	Hazardous Combustion Production) : Carbon Monoxide (CO) & Carbon Dioxide(CO₂)
Stability to	Static Discharge : Stable	(Hazardous Decomposition Production) : ----

	Reactivity: With Oxidisers.	(Conditions to avoid) : Contact With Oxidisers.
Hazardous Polymerization	May Not Occur.	

5. HEALTH HAZARD DATA

Routes of Entry : (**Inhalation, Skin, Mucous Membranes, Eye Contact and Ingestion**)

Effects of Exposure / Symptoms: **Loss of consciousness and irritation.**

LD 50 (in rat) Orally or percutaneous absorption)
(mg / kg body weight) -----

LC 50 (in rat)
(mg/l/ hour.)

Permissible Exposure Limit (PEL)	ppm	mg /cu. m.	Short Term Exposure Limit(STEL)	ppm	mg /cu. m
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Threshold Limit Value (TLV) of ACGIH	ppm	mg/cu. m	Odour Threshold	ppm	mg / cu.m
		300 900		----	-----

Emergency Treatment : **Remove victim immediately to fresh air from contaminated area.**

6. HAZARD SPECIFICATION

NFPA HAZARD SIGNAL	HEALTH 1	FLAMMABILITY 3	STABILITY 0	SPECIAL 0
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Known Hazards

Combustible Liquid : Yes	Water Reactive Material : Yes	Irritant : Yes
Flammable Material : Yes	Oxidiser: No.	Sensitizer: No
Pyrophoric Material: No	Organic Peroxide: No	Carcinogen: No
Explosive Material: Yes	Corrosive Material: No	Mutagen : No
Unstable Material: No	Compressed Gas: No	Others (Specify) : No

7. SAFE USAGE DATA

Ventilation	General.
Personal Protective Equipment Required	Eyes (Specify) : Safety Goggle
	Respiratory (Specify): Emergency Life Saving Apparatus(ELSA), Self Contained Breathing Apparatus.
	Gloves (Specify): Neoprene,PVC
	Clothing (specify) : PVC Suit
Precautions	Handling & Storage Others (Specify) : Store away from source of ignition at good ventilated area.

8. EMERGENCY RESPONSE DATA

	Fire Extinguishing Media : Foam, Carbon Dioxide(CO2) and Dry Chemical Powder(DCP).
Fire	Special Procedures : Water spray can be used to cool the container.
	Unusual Hazardous : Incomplete burning evolves Carbon Monoxide (CO) & Carbon Di Oxide (CO₂)
Exposure (Skin and eye contact, inhalation, Ingestion)	First Aid Measures : Remove victim to fresh air.
Spills	Steps to be taken : Collect in containers.
	Waste disposal method : On large scale absorb and landfill , allow for atmospheric evaporation.

9. ADDITIONAL INFORMATION (DOS & DON'T)

- In case of leaks monitor %LEL, restrict ignition sources. Stop traffic/vehicular movements and dilute vapor cloud with water spray.
- Look for wind direction.
- Approach from upwind side.
- If caught on downwind, move perpendicular to wind direction and assemble at nearest safe assembly point.
- Cordon off the area.
- Use Self Contained Breathing apparatus set in case of Fire.
- Contain leaking liquid on sand or earth.
- Do not Panic.
- Do not enter without knowing the wind direction.

- Do not approach leaking / affected area without proper respiratory protection.
- Do not approach from downwind side.
- Do not run.
- Do not move along or opposite to the direction of wind.
- Do not allow unauthorized personnel.

10. SOURCES USED

Hazardous chemicals ready reference by – Richard.J. Lewis SR

11. MANUFACTURER / SUPPLIER DATA

Firm's Name: Mangalore Refinery & Petrochemicals Ltd.	Standard Packing : Transporation In Bulk Tanker of 12 T,16 T, 18T Capacities, Ship, Pipelines.
Mailing Address: At P.O Kuthethoor, Mangalore-575030 (D.K.)	Emergency Telephone During Transit :(0824)2270400
Telephone Number: (0824)2270400	
TeleFax. Number :(0824)2270013	
Contact Persons In Case of Emergency:	
Head(Operations) TEL: :(0824)2270400,Ext(O)2440,(R)4440	
Head-Marketing TEL: :(0824)2270400, Ext(O)2107	
Fire & Safety ,Control Room TEL: :(0824) 2270279, 2270400,Ext-2333/3333,2555	