

BITUMEN

MATERIAL SAFETY DATA SHEET

1. IDENTITY OF MATERIAL

Product Name : Bitumen		Chemical Designation : Mixture of Hydrocarbons	
Trade Name: VG 10, VG 30, Bitumen(60/70), Bitumen(80/100), Bitumen(Modified)		Synonyms: Mineral Pitch, Asphalt.	
Formula: Mixture of Hydrocarbons	Label : Category Class: 3	CAS Number : 8052-42-4	UN Number : 1993
Regulated Identification: ----	Shipping Name Codes / Label : Flammable liquid		Hazchem Code : ---

2. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid, Solid	Boiling Point in ° C : < 243°C	Vapour Pressure at ° C : mm HG : ---
Appearance(Colour) : Dark brown to black	Melting / Freezing Point in ° C : 175 to 205 ° C	Evaporation rate at 30 ° C : ---
Odour: Strong tarry	Vapour Density (Air-1) :---.	Solubility in water at 30 ° C : Insoluble In Water.
Others (Corrosivity, Etc) : --- -	Specific Gravity (Water-1) : 0.97-1.20	pH: ----

3 FIRE AND EXPLOSIVE HAZARDS DATA

Explosion / Flammability : Flammable.	Flash Point ° C : 204°C	Auto Ignition Temp. : 485 °C
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4. REACTIVE HAZARDS

	Impact : Stable.	Hazardous Combustion Products): CO (Carbon Monoxide),CO2 (Carbon Dioxide)
Stability	Static Discharge: No.	(Hazardous Decomposition Products) : No.
	Reactivity: No.	(Conditions to avoid) : No.

Hazardous Polymerization: No.	May / May Not Occur: No	(Conditions to avoid) : No.
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5. HEALTH HAZARD DATA

Routes of Entry : **(Inhalation, Skin, Mucous Membranes, Eye Contact And Ingestion At Elevated Temperature Only.)**

Effects of Exposure / Symptoms: **A Moderate Irritant.** LD 50 (in rat) Orally or percutaneous absorption) LC 50 (in rat) (mg / kg body weight) :----
(mg/1hour) : ----

Permissible Exposure /cu. m	ppm	mg /cu. m.	Short Term Exposure Limit (STEL)	ppm	mg
Limit (PEL) :	----	----	Limit (STEL)	----	----
Threshold Limit Value (TLV) of ACGIH :	ppm	mg /cu. m.			
	5	-----			

Emergency Treatment : **Remove Victim To Fresh Air, Contacted Body Part To Be Immediately Plunged Under Cold Running Water For Ten Minutes. Seek Medical Help Without Delay.**

6. HAZARD SPECIFICATION

NFPA HAZARD SIGNAL	HEALTH : 2	FLAMMABILITY : 1	STABILITY : 0	SPECIAL: 0
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Known Hazards

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

7. SAFE USAGE DATA

Ventilation	Mechanical
	Local Exhaust : Required.
Personal Protective Equipment Required	Eyes (Specify): Safety Goggle/ Face Shield.
	Respiratory (Specify): Self Contained Breathing Apparatus Set.
	Gloves (Specify) : Asbestos Hand Gloves.
	Clothing (specify): Boiler Suit, Asbestos Suit /Apron.
	Others (Specify) : No
Precautions	Handling & Storage: Store At Cool, Ventilated & Specified Area.

8. EMERGENCY RESPONSE DATA

	Fire Extinguishing Media: Carbon Di-Oxide(CO₂), Dry Chemical Powder(DCP), Aqueous Film Forming Foam(AFFF).
Fire	Special Procedures: Use Water Spray To Cool The Fire Exposed Container.
	Unusual Hazardous: No
Exposure	First Aid Measures: Remove Victim To Fresh Air, Contacted Body Part Immediately Plunge Under Cold Running Water For Ten Minutes. Obtain Medical Advice Without Delay.
	Waste disposal method: Incineration.

9. ADDITIONAL INFORMATION (DOS & DON'T)

- In case of leak, restrict ignition sources. Stop traffic/vehicular movements and cool down the spill with water spray.
- Look for wind direction.
- Approach from side.
- Cordon off the area.
- Use self-contained breathing apparatus set in case of Fire.
- Contain leaking liquid by putting sand or earth.
- Do not Panic.
- Do not enter without knowing the wind direction.
- Do not approach leaking / affected area without proper Personal protection.
- Do not approach from downwind direction

- Do not run.
- Do not allow unauthorized personnel.

10. SOURCES USED

1. Hazardous chemicals desk reference. By – Richard. J. Lewis SR.
2. Safety Data from ICMA.

11. MANUFACTURER / SUPPLIER DATA

Firm's Name: Mangalore Refinery & Petrochemicals Ltd.	Standard Packing : Transporation In Bulk Tanker OF 12 T,16 T, 18T Capacities..
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	