



**BHARAT PETROLEUM CORPORATION LTD.
KOCHI REFINERY**

SAFETY DATA SHEET OF PETROLEUM COKE

1. CHEMICAL IDENTITY

Chemical Name : Petroleum coke		
Chemical Classification : Flammable		
Synonyms : Pet Coke Trade Name :		
Formula :	C.A.S.No.: 64741-79-3	UN No.: NA
Regulated Identification	Shipping Name : NA Codes/Label : NA Hazardous waste I.D. : NA Hazchem Code : 3WE	
HAZARDOUS INGREDIENTS:	C.A.S. No.:	Weight %
1. Petroleum Coke	64741-79-3	100
2. Sulfur Compounds:	Mixture	1-6%
3. Polycyclic Aromatic Hydrocarbons	Mixture	<0.1%

2. PHYSICAL AND CHEMICAL DATA

Boiling Point/Range °C	NA
Physical State	Solid
Appearance	Black powder or solid
Vapor pressure	NA
Melting/Freezing Point °C	NA
Odor	Slight hydrocarbon
Vapor Density (Air=1)	1.7
Solubility in water @ 30°C	Insoluble
Others	NA
Specific Gravity(Water = 1)	2.07
pH (10% Solution)	NA



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3. FIRE AND EXPLOSION HAZARD DATA

Flammability : Yes	LEL % : NA	Flash Point ⁰ C: NA (OC)
TDG Flammability : NA	UEL % : NA	Flash Point ⁰ C : NA (CC)
Auto-ignition Temperature ⁰ C : 670		
Explosion Sensitivity to Impact : NA		
Explosion Sensitivity to Static Electricity : Yes		
Hazardous Combustion products : CO ₂ , CO, SO ₂		
Hazardous Polymerization : No		
Combustible : NA	Explosive Material : NA	Corrosive Material : Sulphur
Flammable Material : Yes	Oxidiser : NA	Others : NA
Pyrophoric Material : No	Organic Peroxide : NA	

4. REACTIVITY DATA

Chemical Stability : Stable.
Incompatibility with Other Material : Heat , extreme temp
Reactivity : Nil
Hazardous Reaction Products : CO ₂ . H ₂ S, CO, etc



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5. HEALTH HAZARD DATA

<u>ROUTES OF ENTRY</u> Inhalation, Skin			
<u>Effects of Exposure/ Symptoms</u> Skin : redness, Irritation, dizziness on exposure			
<u>EMERGENCY TREATMENT</u>			
Inhalation	:	Remove to fresh air.	
Skin & eyes	:	Flush with Plenty of water, get medical Attention	
L.D50 (Oral-Rat) mg/kg : Permissible			
Odor Threshold ppm	:		
Exposure Limit	:	Not known	
TLV (ACGIH)	:		
STEL ppm.	:	NA	
<u>NFPA Hazard Signals</u>			
Health : 1	Flammability : 1	Reactivity : 0	Special : NA

6. PREVENTIVE MEASURES

Personal Protective Equipment	:	Goggles, Rubber Hand gloves, Respiratory Protection, Proper Ventilation.		
Handling and Storage	:	Wear Rubber gloves, Face shield etc		

7. EMERGENCY AND FIRST AID MEASURES

<u>FIRE</u>	
Fire Extinguishing Media	: Do not use water on fires in enclosed spaces due to the potential for hydrogen and carbon monoxide production.
Special Procedure	: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Unusual Hazards	: Material in storage piles may ignite spontaneously. Material may ignite spontaneously. Dust may form explosive mixtures with air.



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EXPOSURE

First Aid Measures

: Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.

Skin:

Wash skin with plenty of soap and water until all traces of material are removed. Remove and clean contaminated clothing (See Other Instructions). Destroy non-resistant footwear. Get medical attention if skin irritation persists or contact has been prolonged.

Ingestion:

If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:

If inhaled, remove the victim to fresh air. If not breathing, clear person's airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Get medical attention immediately

SPILLS

1. Contain the spill immediately.
2. Provide water spray and keep the product wet

8. ADDITIONAL INFORMATION/REFERENCES

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