Material Safety Data Sheet

Petroleum Coke (RXSOL-81-8117-025)

1. Product and Company Identifaction

Product Name	Petroleum Coke
Product Type	RXSOL-81-8117-025

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

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2. Composition / informationon ingredients

Name	CAS#	% by Weight
Marathon Petroleum Coke	64741-79-3	100
Petroleum Coke	64741-79-3	100

3. Hazards Identification

Inhalation:	Excessive dust from powdered material (>5 mg/kg) may cause mild respiratory irritation
Ingestion	Not likely to be toxic by ingestion.
Skin contact	None expected from acute exposure.
Eye contact:	Dust may be a mechanical irritant.

4. First Aid Measures

Eye Contact	Flush eyes with large amounts of tepid water for at least 15 minutes. If symptoms or irritation occur, call a physician.
Skin Contact	Wash with soap and large amounts of water. If symptoms or irritation occur, call a physician.
Inhalation	If affected, move person to fresh air. If breathing is difficult, administer oxygen. If not breathing or if no heartbeat, give artificial respiration or cardiopulmonary resuscitation (CPR). Immediately call a physician. If symptoms or irritation occur with any exposure, call a physician.
Ingestion	Ingestion not likely. If large amounts are swallowed, immediately call a physician.

5. Fire-fighting Measures

Suitable extinguishing media	For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam (AFFF/ATC) or water spray can be used. For large fires, water spray, fog or foam (AFFF/ATC) can be used. Fire fighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.
Specific hazards	This product is neither a f lammable nor combustible material, but will burn when heated to extremely high temperatures.
Special protective equipment for firefighters	Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Avoid excessive water spray application. Keep run-off water out of sewers and water sources.
Flash point	>200 F
Autoignition temperature	No data available.
Flammable limits in air - lower (%)	No data available.
NFPA rating:	
Health	1
Flammability	1
Instability	1
Other	-

6. Accidental Release Measures

NA

7. Handling and Storage

Handling	Comply with all applicable EPA, OSHA, NFPA and consistent state and local requirements. Use appropriate grounding and bonding practices. Store in properly closed containers that are appropriately labeled and in a cool well-ventilated area. Do not expose to heat, open flames, strong oxidizers or other sources of ignition.

8. Exposure controls and personal protection

PERSONAL PROTECTIVE EQUIPMENT:

Engineering measures	Local or general exhaust required in an enclosed area or when there is inadequate ventilation.
Respiratory protection	Not required under normal conditions and adequate ventilation. Use dust/ fume respirator if use ge
Skin and body protection	Gloves
Eye protection	Dust goggles if use produces excessive dust/fume concentrations.

9. Physical and chemical properties

Appearance	Black Porous Chunks or Powder
Physical state (Solid/Liquid/Gas)	Solid
Substance type (Pure/Mixture)	Mixture
Color	Black
Odor	Slight Hydrocarbon
Molecular weight	Not determined.
pH	Neutral
Boiling point/range (5-95%)	7600 F
Melting point/range	6300 F
Decomposition temperature	Not applicable
Specific gravity	0.8-1.0
Density	No data available
Bulk density	No data available
Vapor density	No data available
Vapor pressure	Negligible
Evaporation rate	No data available
Solubility	Negligible
Solubility in other solvents	No data available
Partition coefficient (n-octanol/water)	No data available
VOC content(%)	No data available
Viscosity	No data available.

10. Stability and reactivity

Stability	The material is stable at 70 F, 760 mm pressure.
Polymerization	Will not occur
Hazardous decomposition products	Carbon monoxide and carbon dioxide, hydrocarbons
Materials to avoid	None known.
Conditions to avoid	Dust can form flammable mixtures in air.

11. Toxicological information

Toxicology Information	Petroleum coke did not affect fertility or reproductive performance in pregnant female rats exposed to up to 300 mg/m3, 6 hours/day for 28 days although some portal-ofentry mtoxicity (inflamation, discolored lungs and increased lung weight) was observed. Petroleum coke was found not to be carcinogenic in monkeys and rats in a two-year inhalation study at concentrations up to 30 mg/m3. Chronic inflammatory changes similar to those produced by non-specific respiratory irritants were observed in some rats at the highest exposure level. Chronic skin painting studies of coke dust in mice did not produce evidence of carcinogenicity. Petroleum coke (delayed process and fluid process) was found not to be mutagenic in a rat in vivo bone marrow cytogenetic test, a mouse lymphoma assay and an Ames mutagenicity assay.

12. Ecological information

Mobility	Not available
Ecotoxicity	Not available.
Bioaccummulation	Not available.
Persistance/Biodegradation	The 48 and 96 hour LL50s for a water accommodated fraction (WAF) of petroleum coke are >1000 mg/l in both daphnia and fathead minnows, respectively. Coke did not produce any adverse effects on fresh water algae at WAF concentrations of >1000 mg/l. Earthworms and seedlings (corn, radish & soybean) were unaffected by the prensence of concentrations of 1000 mg/kg coke in the soil.

13. Disposal considerations

Cleanup Considerations	This product as produced is not specifically listed as an EPA RCRA hazardous waste accordin gto f ederal regulations (40 CFR 260-271). However, when discarded, spilled or disposed of, it can become an EPA RCRA hazardous waste. It is the responsibility of the user to determine if disposal material is hazardous according to federal, state and local regulations.

14. Transport information

NA

15. Regulatory information

NA

16. Other information

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