Material Safety Data Sheet

Carbon Black (RXSOL-81-8110-025)

1. Product and Company Identifaction

Product Name	RXSOL-81-8110-025
Product Type	Carbon Black

Company Details:

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

Phone	+91 22 65113333 / 5555 / 9999
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2. Composition / informationon ingredients

Carbon Black	Amorphous (>98%)
Chemical formula	C
CAS number	1333-86-4

3. Hazards Identification

Inhalation	Temporary discomfort to upper respiratory tract may occur due to mechanical irritation when exposures are well above the occupational exposure limit.
Ingestion	No evidence of adverse effects from available data.
eye contact	High dust concentrations may cause mechanical irritation to eye.
skin contact	May cause mechanical irritation, soiling, and skin drying.
Sensitization	No cases of sensitization in humans have been reported.
Chronic Effects	
Potential Environmental Effects	No significant environmental hazards are associated with carbon black release to the environment. Carbon black is not soluble in water. See Section 12.

4. First Aid Measures

Inhalation	Take affected persons out in fresh air. If necessary., restore normal breathing through standard first aid measures
Skin	Wash skin with mild soap and water. If symptoms develop, seek medical attention.

Eye	Rinse eyes thoroughly with large volumes of water keeping eyelid open. If symptoms develop, seek medical attention.
Ingestion	Do not induce vomiting. If conscious, give several glasses of water, rinse mouth with water. Never give anything by mouth to an unconscious person.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
Note to physicians	Treat symptomatically.

5. Fire-fighting Measures

Flammable Properties	It may not be obvious that carbon black is burning unless the material is stirred and sparks are apparent. Carbon black that has been on fire should be observed closely for at least 48 hours to ensure no smoldering material is present. Carbon blacks containing more than 8% volatile materials may form an explosive dust-air mixture. Manufactured carbon blacks do not exceed 8% volatile materials content (unless otherwise noted by the supplier on package and MSDS). See Section 9, Chemical and Physical Properties.
Extinguishing Media	Use foam, carbon dioxide (CO2), dry chemical, or water fog. DO NOT USE high pressure water stream as this may spread burning powder (burning powder will float).
Protection of Firefighters	Wear full protective fire fighting gear (Bunker gear) including self-contained breathing apparatus (SCBA). Special hazards arising from the chemical (e.g. nature of any hazardous combustion products) include carbon monoxide (CO), carbon dioxide (CO2), and oxides of sulfur. NOTE: Wet carbon black produces slippery walking surfaces.

6. Accidental Release Measures

Personal Precautions	Wear appropriate personal protective equipment and respiratory protection.
Environmental Precautions	Carbon black poses no significant environmental hazards. As a matter of good practice, minimize contamination of sewage water, soil, groundwater, drainage systems, or bodies of water.
Methods for Containment	Carbon black is not a hazardous substance under the Comprehensive Environmental Response, Compensation and Liability Act

7. Handling and Storage

Handling	Avoid dust exposures above the occupational exposure limit. Use local exhaust ventilation to control exposures to below occupational exposure limit. Avoid contact with skin and eyes. If exposed, wash to avoid mechanical irritation and soiling. Dust may cause electrical shorts and is capable of penetrating electrical equipment unless tightly sealed. Ensure equipment is tightly sealed. If hot work (welding, torch cutting, etc.) is required the immediate work area must be cleared of carbon black product and dust.
Storage	Store in dry place away from ignition sources and strong oxidizers. Before entering closed vessels and confined spaces containing carbon black test for adequate oxygen percent content, flammable gases and potential toxic air contaminants (e.g., CO, SO2). Follow safe practices when entering confined spaces.

8. Exposure controls and personal protection

Engineering Controls	Use process enclosures and/or exhaust ventilation to keep airborne dust concentrations below the occupational exposure limit.
Respiratory	Approved respirators should be used where airborne concentrations are expected to exceed occupational exposure limits.
Hand Protection	Wash hands and other exposed skin with mild soap. Use of a barrier cream may help to prevent skin drying. General protective gloves may be used to protect hands from carbon black soiling.
Eye Protection	Wear safety glasses or goggles.
Skin Protection	Wear general protective clothing to minimize skin contact. Work clothes should NOT be taken home and should be washed daily.
General Hygiene Considerations	Emergency eyewash and safety shower should be in close proximity. Wash hands and face thoroughly with mild soap before eating and drinking.

9. Physical and chemical properties

Appearance	powder or pellet
Color	black
Odor	odorless
Odor threshold	not applicable
Melting point/range	not applicable
Boiling point/range	Not available.
Vapor pressure	Not available.
Evaporation rate	not applicable
Density: (20ºC)	1.7 – 1.9 g/ml
Bulk density	1.25-40 lb/ft3, 20-640 kg/m3
Pellets	200-680 kg/m3
Powder (fluffy)	2-lbs/ft3, or 20-380 kg/m3
Solubility (in Water)	Insoluble
pH value:(ASTM 1512)	>7 [50 g/l water, 68ºF (20ºC)]
Partition coefficient (n-octanol/water)	Not available.
Viscosity	Not available.
Decomposition temperature	572ºF (300ºC)
Flashpoint	not applicable
Flammability Classification (as defined by OSHA 1910.1200)	not applicable
Lower	50 g/m3
Lower	375 g/m3
Upper	not determined
Maximum Absolute Explosion Pressure	10 bar
Maximum Rate of Pressure Rise1	30-100 bar/sec
Spontaneous Ignition (Autoignition)	>284ºF (>140ºC)
BAM Furnace	>932ºF (>500ºC)
Godbert-Greenwald Furnace	>600ºF (>315ºC)
Minimum Ignition Energy	>10 J
Burn Rate (VDI 2263, EC 84/449)	>45 seconds (not classifiable as “Highly Flammable”, or “Easily Ignitable”)

10. Stability and reactivity

Stability	stable under normal ambient conditions
Conditions to avoid	prevent exposure to high temperatures and open flames
Materials to avoid	strong oxidizers such as chlorates, bromates, and nitrates
Hazardous decomposition products	Carbon monoxide, carbon dioxide, organic products of decomposition, oxides of sulfur (sulfoxides) form if heated above decomposition temperature.
Hazardous polymerization	Will not occur.

11. Toxicological information

Component(s)	
Carbon Black	Amorphous (>98%)
Chemical formula	C
CAS number	1333-86-4

12. Ecological information

Mobility	Not soluble in water. Not expected to migrate
Known or predicted distributio	Not soluble in water. Expected to remain on soil surface
Bioaccumulation Potential	Bioaccumulation is not expected due to physicochemical properties of the substance

13. Disposal considerations

Container/Packaging	Return reusable containers to manufacturer. Paper bags may be incinerated, or recycled, or disposed of in an appropriate landfill in accordance with national and local laws

14. Transport information

N/A

15. Regulatory information

N/A

16. Other information

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of workplace risk as required by other health and safety legislation.

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