

BLACK CARBON POWDER



BLACK CARBON POWDER

Product Appearance

Black powder



Technical Specifications

Technical Properties

Test Conducted	Test Method	Results (wt. %)
Moisture Content	ASTM D - 3173	0.07
Ash Content	ASTM D - 3174	17.1
Volatile Content	ASTM D - 3175	10.2
Fixed Carbon	ASTM D - 3172	72.7
Sulphur (S)	ASTM D - 4294	2.90
Carbon (C)	By Combustion Method	66.0
Total Iron (Fe)	By ICP - OES	2.49

Packaging

Jumbo Bag

1 MT

(1,000 kg)





Technical Data Sheet REF:
INM/REF-PR001/BC01
Email: info@inmaa.sa Website:
www.inmaa.sa

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TECHNICAL SPECIFICATION

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LT = Less than the detection limit

All data and recommendations are the result of careful tests by our laboratories. They only can be considered as recommendation which correspond to the level of experience of today. The data are given in good faith. However, in view of the multiplicity of possible application and working methods we are not in a position to assume any responsibility or obligations deriving from the use of our products.

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MATERIAL SAFETY DATA SHEET

Black Carbon Powder

Section 1 Products Description

Product Name: Black Carbon Powder
Recommended use: Reuse, Recycling,Dyeing
Recommended restrictions: For industrial use only
Company information: Company: INMAA INTERNATIONAL
P.O. Box: 44220, Jeddah 21581 Saudi Arabia
Tel: +966 12 22 12345 Email:info@inmaa.sa
Website: www.inmaa.sa

Section 2 Hazard Identification

Physical hazards:	Not classified
Health hazards	Acute toxicity, inhalation
Environmental hazards:	Specific target organ toxicity following repeated exposure
Potential health effects:	Hazardous to the aquatic environment, long-term hazard

Section 3 Composition / Information on Ingredients

Composition Comments Complete composition is provided below and may include some components classified as non-hazardous		
Components	CAS #	Percent
Carbon	7440-44-0	40 - 55
Trisodium hexafluoroaluminate (Cryolite)	13775-53-6	30 - 50
Aluminium oxide (non-fibrous) Synonym(s): Alumina	1344-28-1	7 - 20
FERRIC OXIDE	1309-37-1	0 - 10
Iron sulphide	1317-37-9	0-1
Sodium beryllium fluoride	13871-27-7	<0.1

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Section 4 First Aid Measures

Eye contact	Rinse eyes with plenty of water or saline for at least 15 minutes. Consult a physician.
Skin contact	Wash with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.
Inhalation	Remove to fresh air. Check for clear airway, breathing, and presence of pulse. If breathing is difficult, provide oxygen. Loosen any tight clothing on neck or chest. Provide cardiopulmonary resuscitation for persons without pulse or respirations. Consult a physician.
Ingestion	If swallowed, dilute by drinking water. Recommend quantities up to 30 mL (~1 oz.) in children and 250 mL (~9 oz.) in adults. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do NOT induce vomiting. Rinse mouth. Consult a physician.
Most important symptoms/effects, acute and delayed	Direct contact: Can cause irritation of the eyes and skin. Dust: Can cause irritation of the upper respiratory tract. See Section 11 for additional information on health hazards.
Medical conditions aggravated by exposure	Asthma, chronic lung disease and skin rashes.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Section 5 Firefighting Procedures

Suitable extinguishing media	Dry chemical, foam, carbon dioxide, water fog.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Although a similar material has been tested and found to be non-explosive, the possibility exists that high concentrations of airborne dust generated during processing could present an explosion hazard.
Special protective equipment and precautions for firefighters	Firefighters should wear CE approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate.
General fire hazards	While not considered "flammable" or "combustible" as defined by regulatory or governmental agencies, the material will burn if ignited. Hydrogen fluoride gas can be evolved above 930°F (500°C) in the presence of water vapor.
Explosion data	
Sensitivity to mechanical impact	Not sensitive.
Sensitivity to static discharge	Take precautionary measures against static discharges when there is a risk of dust explosion.

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Section 6 Spill or Leak Procedures

Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes. Avoid generating dust.
Personal precautions, protective equipment and emergency procedures	
Evacuation procedures Methods and materials for containment and cleaning up	Avoid contact with skin and eyes. Avoid generating dust. Use personal protection.
Environmental precautions	Avoid generating dust. Use dry cleanup procedures. Pick up mechanically. Sweep dust with natural bristle broom (push type recommended). Do not allow to enter drains, sewers or watercourses.

Section 7 Handling and Storage

Handling	Avoid contact with skin and eyes. Avoid generating dust. Keep material dry. Use personal Protection.
Storage	Containerize in drums, tarped dump truck, or bulk container, so that dusting is minimal during storage and transportation. Store away from incompatible materials (See Section 10).

Section 8 Protection Information

Occupational exposure limits			
	Type	Value	Form
Sodium beryllium fluoride (CAS 13871-27-7)	STEL	0.01 mg/m3	(as Be)
	TWA	0.002 mg/m3	(as Be)
Trisodium Hexafluoroaluminate (Cryolite) (CAS 13775-53-6)	TWA	0.00005 mg/m3	Inhalable fraction. (as Be)
	TWA	2.5 mg/m3	(as F)
	Type	Value	Form
Aluminium oxide (non-fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Ferric oxide (CAS 1309-37-1)	TWA	5 mg/m3	Respirable fraction.
Additional components			
Hydrogen fluoride (CAS 7664-39-3)	Ceiling	2 ppm	
	TWA	0.5 ppm	

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Engineering controls	Use with adequate explosion-proof ventilation designed to handle particulates to meet the limits , Exposure Guidelines.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields. Use tight fitting goggles if excessive levels of dust are generated
Hand protection	Wear appropriate gloves to avoid any skin injury. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material
Skin and body protection	The need for personal protective equipment should be based upon a hazard assessment and recommendations from health / safety professionals
Respiratory protection	Use CE-approved respiratory protection as specified by an Industrial Hygienist or other qualified professional if concentrations exceed the limits . Suggested respiratory protection: P2, Acid gas cartridge for hydrogen fluoride gas and sulphur dioxide
Personal protective equipment Thermal hazards	None known
Hygiene measures	Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
Recommended monitoring procedures	Follow standard monitoring procedures.

Section 9 Physical Data

Form	Fines to coarse powder
Color	Grey-black
Odour	Slight
Odour threshold	Not available
Density	2.30 g/cm3
pH	Not available
Melting point/freezing point	1612.16 °C (2933.89 °F) estimated
Initial boiling point and boiling range	3826.43 °C (6919.58 °F) estimated
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	
Flammability limit – upper (%)	Not available
Flammability limit – lower (%)	Not available
Explosive properties	Not available
Vapour pressure	288566.65 hPa estimated
Vapour density	Not available
Relative density	Not available
Solubility(ies)	Slightly soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

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Section 10 Stability and Reactivity Data	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions of use, storage, and transportation.
Possibility of hazardous reactions	Hazardous polymerisation does not occur. Hydrogen fluoride gas can be evolved above 930°F (500°C) in the presence of water vapor.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong acids and oxidizing agents. Contact with strong acids releases hydrogen fluoride.
Hazardous decomposition products	Combustion can generate carbon monoxide, carbon dioxide, iron oxide, carbonyl sulphide and sulphur dioxide.
Section 11 Toxicity Data	
Health effects associated with ingredients	
Black Carbon Powder	Can cause irritation of eyes, mucous membranes and upper respiratory tract.
Information on likely routes of exposure	
Inhalation	Dust: Can cause irritation of the upper respiratory tract. Chronic overexposures: Can cause scarring of the lungs (pulmonary fibrosis), fluoride deposition in bones and cartilage (fluorosis) and lung sensitization in susceptible individuals. Associated with asthma. Additional health effects from elevated temperature processing (e.g., combustion): Vapors: Can cause severe irritation of the respiratory tract. Acute overexposure: Can cause difficulty breathing and the accumulation of fluid in the lungs (pulmonary edema). Effects can be delayed up to 24 hours.
Skin contact	Direct contact: Can cause irritation.
Eye contact	Direct contact: Can cause irritation.
Ingestion	Not relevant, due to the form of the product. Direct contact: Can cause irritation of the eyes and skin. Dust: Can cause irritation of the upper respiratory tract. Toxic if swallowed. Harmful if inhaled.
Section 12 Ecological information	
Eco-toxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	The product solely consists of inorganic compounds which are not biodegradable.
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
Mobility in soil	No data available.
Other adverse effects	None known.

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Section 13 Disposal Information	
Disposal instructions	Reuse or recycle material whenever possible. If reuse or recycling is not possible, disposal must be made according to local or governmental regulations
Waste codes	RCRA Status:
Waste from residues / unused products	If reuse or recycling is not possible, disposal must be made according to local or governmental regulations.
Contaminated packaging	Dispose of in accordance with local regulations.
Section 14 Transport Information	
General Shipping Information	
Basic Shipping Information	
ID number	UN3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Trisodium hexafluoroaluminate)
Technical Name	Trisodium hexafluoroaluminate.
Hazard class	9
Packing group	III
IATA Notes:	
This classification may be used for International Air Transportation Association (IATA) and International Civil Aviation Organization (ICAO) international air shipments. Packaging Instruction 911 applies.	
IMDG Code Notes:	
The words "MARINE POLLUTANT" must supplement the proper shipping name on transport document as indicated in International Maritime Dangerous Goods code (IMDG) 5.4.1.4.3.6. for international carriage by vessel.	
IBCs need to be "marked" on two opposing sides with the Proper shipping name and technical name in addition to the UN number markings (IMDG 5.2.1).	
IBC Code	
Not regulated as dangerous goods.	
Disclaimer	
This section provides basic classification information and, where relevant, information with respect to specific modal regulations, environmental hazards and special precautions. Otherwise, it is presumed that the information is not available/not relevant.	
Section 15 Regulatory Information	
Based on Region, check availability	
Section 16 Additional Information	
The information contained herein is based on the present state of our knowledge, but without liability	
DISCLAIMER: This information contained in the data sheet is to the best of our knowledge correct and up to date. Under well-defined conditions. Its accuracy or suitability under the actual conditions of any independent use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate, manufacturer and seller cannot accept any liability in connection with the use of the product relative to coverage, performance, injury, or damage, unless we specify in writing to do so. The information in this data sheet is subject to change without prior notice and it is the user responsibility to ensure it is current.	

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