

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Activated Bamboo Charcoal Powder - Raw Material
Synonyms	:	Steam activated carbons
INCI name	:	Charcoal Powder
CAS #	:	8021-96-6
Country of Origin	:	South Korea
EINECS #	:	931-328-0
Product use	:	Domestic and Industrial
Supplier	:	New Directions Aromatics Inc.
Address	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax	:	905-362-1926
Telephone number	:	905-362-1915
Emergency phone number	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR1910.1200).

GHS Label elements, including precautionary statements

Signal: Not applicable

Hazard statement(s)

Not applicable.

Precautionary statement(s)

Not applicable.

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Activated Bamboo Charcoal Powder	8021-96-6	931-328-0	100 %

4. FIRST AID MEASURES

Eye contact

Immediately flush eyes with plenty of cool water for at least 15 minutes. Get medical attention if irritation occurs.

Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

Ingestion

Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Foam. Dry Powder. Carbon dioxide.

Unsuitable extinguishing media

Water spray, water jet.

Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter permitted confined space or enclosed area without proper Personal Protective Equipment. NIOSH- approved self-contained breathing apparel may be required in a closed area.

Special hazards arising from the substance or its combustible products

Material burns slowly without flame. Activated carbon which has been allowed to smolder for a long time in a confined space may accumulate carbon monoxide above its lower explosive limit. Avoid stirring up dust clouds. Under certain conditions, carbon dust/air mixtures can produce an explosive atmosphere. If there are dust clouds and sufficient ignition energy, flash fires or explosions may occur. Products of combustion may contain Carbon monoxide and Carbon dioxide.

Resulting gases

Carbon monoxide and Carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Avoid dust formation and ignition sources. Wear suitable protective equipment. See also Section 8.

Environmental precautions

Material is not toxic and can be picked up by sweeping, shoveling or vacuuming. Provisions should be made to prevent washing, draining, or directing material to storm or sanitary sewers.

Methods and materials for containment and cleaning up

Remove material mechanically. Clean polluted areas with water. If necessary remove material with explosion-proof suction system. All local regulations regarding health and pollution must be followed for disposal or activated carbon.

7. HANDLING AND STORAGE

Precautions for safe handling

Make sure to provide adequate ventilation in enclosed areas. Avoid conditions which create dust. Do not breath dust. Keep product and dust away from sources of ignition. Wear adequate protective equipment. Keep away from heat and sources of ignition. No smoking near areas where material is stored or used.

Conditions for safe storage, including any incompatibilities

Store in a dry and cool environment. Keep away from heat and sources of ignition. Enclosed storage vessels and silos allow for hermetical seal and grounding. Access to enclosed storage of wet activated carbon should be restricted.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

Use with adequate ventilation to maintain exposures below occupational limits. Use local exhaust ventilation to control airborne dust . Dust should be controlled at point of operation.

Whenever works enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.

Eyes

Wear safety glasses with side shields and in area of high dust concentrations wear chemical goggles.

Skin

Wear suitable gloves to prevent repeated or prolonged skin contact.

Respiratory

Approved respirator may be necessary to maintain exposures below the acceptable limits if local exhaust ventilation is not adequate. Select appropriate NIOSH-approved protection or, as appropriate to location, a recognized equivalent and acceptable national or international consensus standard. Proper respiratory selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure and published respirator protection factors.

Ingestion

Not for ingestion.

Exposure limit values

OSHA: PEL = 15mg/m³ as total dust; 5mg/m³ as respirable fraction.

ACGIH: TLV = 10mg/m³ as total dust; 3mg/m³ as respirable fraction.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Black powder.
Odor	:	Odorless.
pH	:	6 - 8
Relative density	:	Bulk Density: 0.50 - 1.00 g/cm ³
Partition coefficient	:	Not available.
Auto-ignition temperature	:	Not self-heating.
Decomposition temperature	:	Not determined.

10. STABILITY AND REACTIVITY

Reactivity

This material presents no significant reactivity hazard.

Chemical stability

This material is stable under normal conditions.

Possibility of hazardous reactions

Keep away from strong oxidizing acids, other strong oxidants.

Conditions to avoid

Extreme heat and open flames. Avoid accumulation of finely ground dust. Minimize generation of airborne dust. Contact with incompatible materials.

Incompatible materials

Heat and ignition sources, strong oxidizing acids; other strong oxidants.

Hazardous decomposition products

This material does not decompose at ambient temperatures.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

This material is Non-toxic.

Carcinogenicity

None of the components of this material are listed as a carcinogen.

IARC

Not carcinogenic as per IARC.

NTP

Not carcinogenic as per NTP.

OSHA

Not carcinogenic as per OSHA.

Mutagenicity

No data available.

Reproductive toxicity

No data available.

Inhalation

Inhalation of high concentrations of vapor may result in irritation of eyes, nose and throat, headache, nausea, and dizziness.

Skin contact

Adverse skin effects should be prevented by normal care and personal hygiene.

Eye contact

Possible irritation should be prevented by wearing safety glasses.

12. ECOLOGICAL INFORMATION

Persistence and degradability

Not expected to degrade.

Bio - accumulative potential

Low bio-accumulation potential as negligible water solubility restricts route of exposure in the aquatic environment.

Mobility in soil

Mobility is not expected because this material is insoluble.

Other adverse effects

Not available.

13. DISPOSAL CONSIDERATION

All Federal, State, Local regulations and other countries health and pollution must be followed . Virgin activated carbon no specified disposal methods apply. Used or spent activated carbon should be disposed of in accordance with applicable laws/regulations. Reuse or recycle material whenever possible.

14. TRANSPORT INFORMATION

US DOT Shipping Description (Land)

Not regulated

IMO-IMDG Shipping Description (Sea)

Not regulated

IATA Shipping Description (Air)

Not regulated

15. REGULATORY INFORMATION

GHS Hazard Statements

Please refer to section 2.

GHS Precautionary Statements

Please refer to section 2.

16. OTHER INFORMATION

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Disclaimer & Caution

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