



Nanda Incorporated

ACTIVATED CARBON

69/1 Bommenahalli, KN Halli (PO), TIPTUR – 572 202, (Karnataka) India

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Material Safety Data Sheet

Product Manufacturer:

- ❖ **NAME:** NANDA INCORPORATED
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Section: 1 – Product Identification:

SUBSTANCE:	Coconut Shell Based Activated Carbon	CHEMICAL NAME:	Activated Carbon
FORMULA:	C	CAS NUMBER:	7440.44.0
CHEMICAL FAMILY:	Carbon, Element Group IV-A	H S CODE:	38021000

This particular form of carbon is prepared by steam activation process. Testing using methods in **49 CFR173 Appendix E** has shown the product does not meet the definition of **Hazard Class 4.2**. This product is classified as non-hazardous by criteria specified in **29 CFR 1910.1200** (Hazard Communication)

Section: 2 – Physical & Chemical Data:

INGREDIENTS:	Carbon (90 to 100%), Inert Ingredients (0 to 10%)	BOILING POINT:	4827 °C
APPEARANCE:	Odorless black solid, Granule, Pellet or flake	MELTING POINT:	3500 °C
APPARENT DENSITY:	0.30 - 0.70 g/cc @ 25 °C	IGNITION POINT:	260-427 °C
WATER SOLUBILITY:	Insoluble		

Section: 3 – Potential Health Hazard:

- ❖ **OVERVIEW:** This product is non-toxic through ingestion. It is non-toxic through skin absorption. It is not a primary skin irritant. No sensitization effects are known. It is non-toxic through inhalation. Due to its physical properties, carbon dust may irritate the respiratory system and produce eye irritation. High airborne Dust concentrations may pose an explosion hazard.
- ❖ **SKIN:** Prolonged or repeated contact may cause dryness or chapping of Exposed area. Chronic skin exposure may discolour the hair follicle.
- ❖ **EYES:** Carbon particles may cause physical irritation.
- ❖ **INHALATION:** Overexposure may cause irritation to respiratory system due to carbon deposition in the lungs and the respiratory tract.
- ❖ **INGESTION:** Ingestion may cause gastrointestinal irritation, vomiting and Constipation.

Section: 4 – First Aid Measures:

- ❖ **EYES:** Immediately flush eyes with plenty of fresh water for at least 15 minutes. Seek medical attention if irritation persists.
- ❖ **SKIN:** Wash the area with soap and plenty of fresh water to avoid drying and chapping of skin.
- ❖ **INGESTION:** Use of this product for medicinal purposes should be conducted only by qualified medical personnel. If swallowed, give large amounts of water or milk. Do not induce vomiting.
- ❖ **INHALATION:** Remove victim to fresh air. Apply resuscitation if victim is not breathing. Seek medical attention if irritation persists.

Section: 5 – Fire & Explosion Hazard & Fighting Measures:

- ❖ **FIRE & EXPLOSION HAZARDS:** Steam activated carbon is combustible but not easily ignitable below 2000 °C and self ignition in air is at well above 3500 °C. Activated carbon is an electrical conductor and should therefore not be allowed to accumulate as dust on open electrical circuits. Electrical outlets, lights and motors in dry carbon feed and storage areas should be of such construction as to preclude the entrance of carbon dust. Suspension of powdered activated carbon may explode if exposed to strong sources of ignition. Upon combustion, this product may emit carbon monoxide and low molecular weight hydrocarbons. Other materials adsorbed onto the carbon may also be released during combustion.
- ❖ **FIRE FIGHTING INSTRUCTION:** Fire-fighters should wear full protective clothing including self contained breathing apparatus. Avoid direct stream at pressure on the carbon to prevent dispersal of smouldering particles which could spread the fire.
- ❖ **EXTINGUISHING MEDIA:** Dry chemical, foam, carbon dioxide, water fog etc.

Section: 6 – Spill Or leak Procedures:

- ❖ **REPORTABLE QUANTITIES:** NO EPA RQ for this product.
- ❖ **IF SPILLED OR LEAKED:** Sweep/shovel up, neutralize and discard or repackage. Do not release to sewer or waterways.
- ❖ **WASTE DISPOSAL METHOD:** Unused carbon may be neutralized and disposed of in refuse container.

Section: 7 – Handling, Storage & Transportation:

- ❖ **HANDLING:** Direct body exposure should be minimized as a good hygienic practice. Avoid getting this material into the contact with your eyes. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. Avoid formation of airborne dusts. Wet activated carbon selectively depletes oxygen from air. When entering even partially enclosed area containing activated carbon, the oxygen levels must be determined, adequate precautions exercised and appropriate protective equipment used if necessary.
- ❖ **STORAGE PROCEDURE:** Steam Activated carbon must be stored tightly closed in well ventilated and dry warehouses in secure packaging which precludes moisture and atmospheric contaminants. Precautions must be taken to avoid direct contact of stored activated carbon with strong oxidizing agents such as chlorine, hypo chlorites, potassium permanganate, ozone, peroxide etc. Activated carbon in storage must not come in contact with hydrocarbons like oils, Gasoline, diesel fuel, grease; paint thinners etc. as mixing of carbon with hydrocarbons may cause spontaneous Combustion. Store the material away from heat, ignition sources and combustible materials.
- ❖ **TRANSPORTATION:** Steam activated carbon is non-hazardous and exposed to the atmosphere for more than 24hours before packing. It is therefore excluded from **IATA #395, IMCO class 4.2** or **UN1362**.
- ❖ **FREIGHT CLASSIFICATION:** **NMFC #40560, UFC #20460**. This product is therefore acceptable for carriage by sea, road or air.

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