

**Material : COCONUT SHELL BASED ACTIVATED CARBON****Manufacturer Information**

**INDO GERMAN CARBONS LIMITED**  
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**Chemical Identification Information**

Chemical Name: **Coconut Base Activated Carbon**  
Chemical Family: **Carbon. Element - Group IV A**  
CAS Number: **7440.44.0**

**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)**

**Physical and Chemical Properties**

Ingredients: **Carbon (90 to 100%), Inert Ingredients (0 to 10%)**  
Appearance: **Black and Odourless, Granular or Powder**  
Water Solubility: **Insoluble**  
Boiling point: **8721<sub>0</sub> F, 4827<sub>0</sub> C (approx.)**  
Melting point: **3500<sub>0</sub> C**  
Specific Gravity: **0.38 . 0.44 @ 25<sub>0</sub> C**  
Ignition Point: **500 . 800<sub>0</sub> F**

**Storage, Handling and Transportation**

**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 oxidising 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.

**Handling:** Direct body exposure should be minimised as a good hygienic practice. Avoid getting this material into contact with your eyes. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. Avoid the 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.

**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.

**Fire and explosion related data and fighting measures**

**Fire and Explosion hazards:** Steam activated carbon is combustible but not easily ignitable below 200<sub>0</sub>C and self ignition in air is at well above 350<sub>0</sub>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.

**Health hazards**

**Overview:** May be irritating to eyes, skin and respiratory tract. 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.

**First Aid measures**

**Eyes:** Immediately flush eyes with plenty of water. Seek medical attention if irritation persists.

**Skin:** Wash with soap and 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 get immediate medical attention or advice.

**Inhalation:** Remove victim to fresh air. Apply resuscitation if victim is not breathing. Seek medical attention if irritation persists.

Reasonable care has been taken in the preparation of this information but the manufacturer makes no warranty and assumes no liability for any direct, incidental or consequential damages resulting from its use.