



MATERIAL SAFETY DATA SHEET **(ACTIVATED CARBON)**

SECTION 1 – CHEMICAL IDENTITY

Name of Chemical : Coconut Activated Carbon
Product's Name : PT.VIVA AIR SEJAHTERA

SECTION 2 – CHEMICAL & PHYSICAL DATA

Iodine number (mg/g) : 1210,55
Absorpt by Methylene Blue: 207,42
Bulk Density (g/ml) : 0.6238
Inherent Moisture : 3 Max
Ash Content (%) : 2.10
Water Content (%) : 4.40
Appearance : Solid Black
Odor : Odourless Material
Solubility : Insoluble in water
Purity : 92.8 %
PH Test Colour : Purple
Mesh : 8/30

SECTION 3 – HAZARD IDENTIFICATION

Emergency Overview : Caution that IPC affects the respiratory and cardiovascular system.

Health Rating : Moderate
Flammable Rating : Slight
Reactivity Rating : Slight
Contact Rating : Slight
Lab Protective Equip. : Googles, Lab Coat, Vent Hood, Proper Glove

Potential Health Effects

Inhalation : No adverse effects expected and may cause mild irritation to the respiratory tract
Ingestion : No adverse effects expected and may cause mild irritation to the gastrointestinal tract
Skin Contact : Not expected to be health hazard from skin exposure. May cause mild
Eye Contact : Irritation and redness
: No adverse effect expected, may cause mild irritation and possible reddening

Chronic Exposure : Prolonged inhalation of excessive dust may produce pulmonary disorder

SECTION 4 – FIRST AID MEASURES

Inhalation : Remove to fresh air and get medical attention for any breathing difficulty

Ingestion : Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice

Skin Contact : Not expected to require first aid measures. Wash exposed area with soap and water and get medical if irritation develop

Eye Contact : Wash thoroughly with running water and get medical if irritation develop

SECTION 5 – FIRE FIGHTING MEASURES

Fire:

As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source. Activated carbon is difficult to ignite and tends to burn slowly (smolder) without producing smoke or flame.

Wet activated carbon depletes oxygen from the air. Materials allowed to smolder for long periods in enclosed spaces, may produce amounts of carbon monoxide which may reach the lower explosive limit for carbon monoxide of 12.5% in air.

Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.

Explosion:

Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Minimum explosible concentration 0.140 g/l.

Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Clean up spills in a manner that does not disperse dust into the air. Use non-sparking tools and equipment. Reduce airborne dust and prevent scattering by moistening with water. Pick up spill for recovery or disposal and place in a closed container.

Warning!

Spent product may have absorbed hazardous materials.

SECTION 7 – HANDLING & STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Keep away from moisture and oxidizers. Avoid dust dispersal. Wet activated carbon depletes oxygen from the air and therefore dangerously low levels of oxygen may be encountered in confined spaces. Work procedures for potentially low oxygen areas should be followed.

Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8 – EXPOSURE CONTROLS

Airborne Exposure Limits:

- OSHA Permissible Exposure Limits (PELs):
activated carbon (graphite, synthetic): total particulate = 15 mg/m³ (TWA), respirable fraction = 5 mg/m³ (TWA).
- ACGIH Threshold Limit Values (TLVs): graphite, all forms except graphite fibers: 2 mg/m³ (TWA).

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.

Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9 – STABILITY & REACTIVITY DATA

Stability :

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Involvement in a fire causes formation of carbon dioxide and carbon monoxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.

Conditions to Avoid:

Moisture and incompatibles.

SECTION 10 – TOXICOLOGICAL INFORMATION

Investigated as a reproductive effector.

-----\Cancer Lists\-----

--- NTP Carcinogen ---

Ingredient	Known	Anticipated	IARC Category
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Steam Activated Carbon (7440-44-0)	No	No	None

SECTION 11 – ECOLOGICAL INFORMATION

Environmental Fate : No information found.

Environmental Toxicity : No information found

SECTION 12 – DISPOSAL CONSIDERATION

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 13 – TRANSPORTATION DATA

Not Regulated

SECTION 14 – OTHER INFORMATION

Label Hazard Warning:

ACTIVATED CARBON AFFECTS THE RESPIRATORY AND CARDIOVASCULAR SYSTEMS.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling .

Label First Aid:

If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

Product Use:

Laboratory Reagent.

SECTION 15 – COMPANY DISCLAIMER
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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.