



PT. INTI ALAM KIMIA

Jl. Manyar Permai 10 Blok 7A No. J & K, Pantai Indah Kapuk – Penjaringan, Jakarta Utara
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MATERIAL SAFETY DATA SHEET

Activated Carbon

Section I. Chemical Product and Company Introduction

Supplier:

PT. Inti Alam Kimia
Jalan Manyar Permai 10 Blok 7A No. J & K
Pantai Indah Kapuk, Jakarta - Indonesia
Tel. No (+62) 2156947714

- Commodity Name:* **Steam Activated Carbon / Coconut Shell Base Activated Carbon**
- Chemical Name:* **Activated Carbon**
- Synonym:* **Activated Carbon**
- CAS Number:* **7440-44-0**
- Chemical Formula:* **C**

Section II. Composition and Information on Ingredients

- Chemical Name:* **Activated Carbon**
- CAS #:* **7440-44-0**
- COMPOSITION:* **100%**

Section III. Identification:

- Acute Health Effects.* **Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness. Practices and always wear protective equipment when handling this compound.**
- Chronic Health Effects.* **This product has no known chronic effects. Repeated or prolonged exposure to this compound is not known to aggravate medical conditions.**
- Acute Health Effects.* **This product is not listed by NTP, IARC or regulated as a Carcinogen by OSHA.**

Section IV. First Aid Measures

- **First Aid for Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.
- **First Aid for Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Get medical aid if irritation occurs.
- **First Aid for Inhalation:** If inhaled, removed to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- **First Aid for Ingestion:** If swallowed, call a physician immediately.
- **Notes to Physician:** Treat symptomatically and supportively.

Section V. Fire and Explosion Data

- **Flash Points:** Not Applicable
- **Self Heating substance:** Not regulated; See note 1
- **Flammable Limits:** Not Applicable
- **Extinguishing Media:** Water Spray
- **Fire Fighting Procedure:** Burning will produce toxic fumes. Wear self contained breathing apparatus and full turnout gear to fight fires.

Section VI. Accidental Release Measures

- **Spill or Leak Procedures:** Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

Section VII. Handling and Storage

- **Storage Temperatures:** Store at ambient temperature.
- **Shelf Life:** Unlimited in tightly closed container.
- **Special Sensitivity:** None
- **Handling / Storage Precautions:** Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in dry place away from direct sunlight, heat and incompatible materials (see Section X). Reseal containers immediately after use. Store away from food and beverages.

Section VIII. Exposure Controls / Personal Protection

- **Eye Protection:** Safety glasses or goggles.
- **Skin Protection:** PVC gloves with impervious boots, apron or coveralls. Employees should wash their hands and faces before eating, drinking, or using tobacco products.

- **Respirator:** Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.
- **Ventilation:** Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.
- **Additional Protective Measures:** Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of hazardous chemicals.

Section IX. Physical and Chemical Properties

- **Physical Form:** Granular Material or Powder
- **Color:** Black
- **Odor:** Odorless
- **pH:** Not Applicable
- **Boiling Point:** Sublimes
- **Freezing Point:** Not Applicable
- **Solubility in Water:** Insoluble
- **Special Gravity:** Varies with physical form

Section X. Stability and Reactivity

- **Stability:** Stable. Avoid storing at high temperatures or in direct sunlight.
- **Hazardous Polymerization:** Has not been reported
- **Incompatibilities:** Oxidizers
- **Instable Conditions:** Excessive temperatures (see incompatibilities)
- **Decomposition Temperature:** Not Established
- **Decomposition Products:** Oxides of Carbon

Section XI. Toxicological Information

- **Routes of Exposure:** Eye contact. Ingestion. Inhalation. Skin contact.
- **Toxicity Data:** This material has not shown any long term harmful effects.
- **Chronic Toxic Effects:** None
- **Acute Toxic Effects:** Causes readily reversible changes, which disappear after end of exposure.

Section XII. Ecological Information

- **Eco-toxicity:** No information available.

Section XIII. Disposal Considerations

- **Waste Disposal Method:** Waste disposal should be in accordance with existing federal, state and local environmental regulations.

Section XIV. Transportation Information

- **UN- Proper Shipping Name:** Not regulated; See note 1
- **Hazard Class:** None on finished product; See note 1
- **Packaging Group:** None on finished product; See note 1
- **Marine Pollutant:** None on finished product; See note 1

Note 1: Under the UN classification for activated carbon, all activated carbons have been identified as a class 4.2 product. However, This product has been tested according to the *United Nations Transport of Dangerous Goods* test protocol for a “self-heating substance” (*United Nations Transportation of Dangerous Goods, Manual of Tests and Criteria, Part III, Section 33.3.1.6 - Test N.4 - Test Method for Self Heating Substances*) and it has been specifically determined that this product does not meet the definition of a self heating substance (class 4.2) or any other hazard class, and therefore should not be listed as a hazardous material. This information is applicable only for the Activated Carbon Product identified in this document.

Section XV. Regulatory Information

- **Clean Air Act:** This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.
- **Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutant under the CWA.

Section XVI. Other Information:

Activated carbon can be safely stored in any normal storage area, but away from sources of direct of heat.

- Prepared by: **PT. Inti Alam Kimia**
- Revision Date: **01 March, 2018**
- Self Heating test by SUCOFINDO (Certificate number: 60835/GABPAI); Result: Passed.
- Self Heating test by PT.SGS INDONESIA (Test report number: IDAU83702); Result: Passed.

The information contained herein is, believed to be accurate and represent the best information currently available to us.