

## Section 1 : Chemical Product and Company Identification

**Product Type** Activated Carbon CARBOCARB

**Product Code**

**Company Identification**

manufacturer / Supplier : **Wee-rin Chemical Limited partnership.**

**Tel.02 580 5629 MB.091 772 6385**

**www.wee-rinchem.co.th**



## Section 2 : Compositon / Information on Ingredients

Nonhazardous components are listed at 3% or greater; acute hazards are listed when present at 1 % or greater and chronic hazards are listed when present at 0.01% or greater. This is not intended to be a complete compositional disclosure.

**Activated carbon**

**CAS Number** 7440-44-0

**% by wt** 100

## Section 3 : Hazards Identification

**Emergency Overview:** Black particulate solid, pellet or powder. Contact may cause eye irritation. Dust may be slightly irritating to eyes and respiratory tract. Avoid generation of dust during handling.

**Caution:** Wet activated carbon removes oxygen from air causing a severe hazard to workers in enclosed or confined space. Before entering such as area, sampling and work procedures for low oxygen levels should be taken to ensure ample oxygen availability, observing all local, state and federal regulations.

### OSHA Regulatory Status

Not Regulated

<b>HMIS Ratings</b> (NFPA)	Health	0	4 = Extreme/Severe 3 = High/Serious 2 = Moderate 1 = Slight 0 = Minimum W = Water Reactive OX = Oxidizer
	Flammability	1	
	Reactivity	0	
	Special		

**Protective Equipment** Safety glasses with side shields or goggles, gloves, long sleeve shirt or lab coat, long pants recommended.

**Health Effects** See Section 4

**Environmental Effects** See Section 12

## Section 4 : First Aid Measures

### Route of exposure

<b>Eyes</b>	Dust may cause mild irritation, possibly reddening.
<b>Skin</b>	Dust may cause mild irritation, possibly reddening.
<b>Inhalation</b>	Dust may cause mild irritation, possibly reddening.
<b>Ingestion</b>	Dust may cause mild irritation to digestive track resulting in nausea or diarrhea.
<b>Signs/Symptoms of Exposure</b>	Dust may cause irritation and redness of eyes, irritation of skin and respiratory system.
<b>Emergency and First Aid Procedure</b>	For eyes contact, immediately flush with copious amounts of water for at least 15 minutes, lifting both the upper and lower lids occasionally; seek medical attention.  For skin contact, wash with soap and water; seek medical attention. For inhalation, Remove to fresh air and rest as needed; seek medical attention for any breathing difficulty. For ingestion, drink plenty of water; seek medical attention.
<b>Medical Conditions Generally Aggravated by Exposure</b>	People with pre-existing skin conditions or eye problems or impaired respiratory function may be more susceptible to the potential effects of the dust.

## Section 5 : Fire Fighting Measures

<b>Suitable Extinguishing Media</b>	Use an extinguishing media suitable for the surrounding fire.
<b>Unsuitable Extinguishing Media</b>	N/A
<b>Specific Hazards</b>	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. Carbon monoxide and carbon dioxide gas may be generated if combusted.  Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.
<b>Protective Equipment and Procedures</b>	Wear NIOSH approved self-contained breathing apparatus suitable for the surrounding fire.

## Section 6 : Accidental Release Measures

<b>Personal Precautions</b>	Wear protective equipment, keep unnecessary personnel away, ventilate area of spill.
<b>Environmental Precautions</b>	The material is not soluble but can cause a particulate emission if discharged to waterways; therefore, dike all entrances to sewers and drains to avoid introducing the material into the waterways.
<b>Containment &amp; Clean Up</b>	Dike all entrances to sewers and drains. Vacuum or shovel spilled material and place in closed container for disposal.  Remove product to appropriate storage area until it can be properly disposed of in accordance with local, state and federal regulations. Avoid dust information. See Section 13.
<b>Other information</b>	N/A

# MATERIAL SAFETY DATA SHEET

<b>Section 7 : Handling and Storage</b>			
<b>Handling</b>	Avoid prolonged contact with eyes and skin. Keep away from ignition sources. Use in well ventilated areas. Protect containers from physical damage. Wash hands after handling		
<b>Storage</b>	Store in cool, dry, ventilated are and in closed containers. Keep away from oxidizers, heat or flames. Store away from ignition sources.		
<b>Section 8 : Exposure Controls/ Personal Protection</b>			
<b>Component</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	
Activated Carbon	5 mg/m <sup>3</sup> Resp	5 mg/m <sup>3</sup> Resp	
<b>Exposure Guidelines</b>	Wet activated carbon removes oxygen from air posing a hazard to workers in enclosed or confined space. Before entering such an area, sample the air to assure sufficient oxygen supply. Use work procedures for low oxygen levels, observing all local, state and federal regulations.		
<b>Engineering Controls</b>	No special ventilation requirements. Good general ventilation should be adequate. Mechanical ventilation is recommended for enclosed or confined spaces.		
<b>Personal Protective Equipment</b>	Use of NIOSH approved particulate filter is recommended if dust is generated in handling. The usual precautionary measures for handling chemicals should be followed, i.e. gloves, safety glasses w/side shields or goggles, long sleeve shirt or lab coat, dust respirator if dusty. Other protective clothing/equipment as appropriate.		
<b>General Hygiene</b>	The usual precautionary measures for handling chemicals should be followed: i.e. Keep away from food and beverage; remove contaminated clothing immediately; wash hands before breaks or eating; avoid contact with eyes and skin.		
<b>Section 9 : Physical and Chemical Properties</b>			
<b>Boiling Point</b>	N/A	<b>Melting Point</b>	N/A
<b>Vapor Pressure (mm.Hg)</b>	0	<b>Evaporation Rate</b>	N/A
<b>Vapor Density (air = 1)</b>	Solid	<b>Flash Point</b>	N/A
<b>Specific Gravity</b>	0.4 - 0.7	<b>UEL</b>	N/A
		<b>LEL</b>	N/A
<b>Flammability Limits</b>	Ignition Temperature > 220°C		
<b>Odor</b>	None		
<b>Solubility in Water</b>	Product is not soluble		
<b>Appearance</b>	Black Granular or powder material		

# MATERIAL SAFETY DATA SHEET

<b>Section 10 : Stability and Reactivity</b>					
<b>Stability</b>	Stable				
<b>Condition to Avoid</b>	None				
<b>Hazardous Reaction</b>	Will not occur				
<b>Condition to Avoid</b>	None				
<b>Caution:</b> High concentrations of organics in air will cause temperature rise due to heat of adsorption. At very high concentration levels this may cause a bed fire. High concentrations of Ketones and Aldehydes may cause a bed temperature rise due to adsorption and oxidation.					
<b>Incompatible Materials</b>	Alkali Metals and Strong Oxidizers such as ozone, oxygen, permanganate, chlorine.				
<b>Hazardous Decomposition Product</b>	Carbon monoxide and carbon dioxide gas may be generated during combustion of this material.				
<b>Section 11 : Toxicological Information</b>					
<b>Acute Effects</b>					
<b>Toxicity Studies</b>	<table border="0"> <tr> <td><b>Oral LD50</b></td> <td>Not Determined on the finished product.</td> </tr> <tr> <td><b>Dermal LD50</b></td> <td>Not Determined on the finished product.</td> </tr> </table>	<b>Oral LD50</b>	Not Determined on the finished product.	<b>Dermal LD50</b>	Not Determined on the finished product.
<b>Oral LD50</b>	Not Determined on the finished product.				
<b>Dermal LD50</b>	Not Determined on the finished product.				
<b>Inhalation</b>	See Section 4				
<b>Ingestion</b>	See Section 4				
<b>Eye Irritation</b>	See Section 4				
<b>Skin Irritation</b>	See Section 4				
<b>Sensitization</b>	Not Determined on the finished product.				
<b>Target Organ(s) or System</b>	Eyes, Skin and Upper Respiratory System				
<b>Signs and symptoms of Exposure</b>	Irritation and redness of eyes, irritation of skin and respiratory system may result from exposure to carbon dust. See Sections 3 and 4				
<b>Chronic Effects</b>					
<b>Carcinogenicity</b>	Not Determined on the finished product.				
<b>Mutagenicity</b>	Not Determined on the finished product.				
<b>Reproductive Effects</b>	Not Determined on the finished product.				
<b>Developmental Factors</b>	Not Determined on the finished product.				
<b>Section 12 : Ecological Information</b>					
<b>Ecotoxicity</b>	Not Determined on the finished product.				
<b>Persistence/degradability</b>	Not Determined on the finished product.				
<b>Bioaccumulation/Accumulation</b>	Not Determined on the finished product.				
<b>Mobility in Environmental Media</b>	Not Determined on the finished product.				
<b>Other Adverse Effects</b>	Not Determined on the finished product.				
<b>Section 13 : Disposal Considerations</b>					
Vacuum or shovel material into a closed container. Storage and disposal should be in accordance with applicable local, state and federal laws and regulations. Local regulations may be more stringent than state or federal requirements.					

## Section 14 : Transport Informtion

This information as presented below only applies to the material as shipped. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

<b>Land</b>	<b>DOT Regulation</b>	Proper Shipping Description	(Steam Activated Carbon)
	<b>Canadian WHMIS</b>	Hazard Class	N/A (See note below)
		UN/NA	UN 1362
<b>Water</b>	<b>IMO/IMDG</b>	Proper Shipping Description	(Steam Activated Carbon)
		Hazard Class	N/A (See note below)
		UN/NA	UN 1362
<b>Air</b>	<b>IACO/IATA</b>	Proper Shipping Description	(Steam Activated Carbon)
		Hazard Class	N/A (See note below)
		UN/NA	UN 1362

Information reported for product/sie: 0.5 kg

This product has been tested according to the United Nations "Transport of Dangerous Goods" test protocol for spontaneously combustible materials. It has been specifically determined that this product does not meet the definition of a self-heating substance or any hazard class, and therefore is not a hazardous material and not regulated.

## Section 15 : Regulatory Information

<b>SARA Title III 302</b>	Product is not subject to SARA Title III, section 302 regulation.
<b>SARA Title III 313</b>	Product is not subject to SARA Title III, section 313 regulation.
<b>TSCA</b>	Product is listed.
<b>California Proposition 65</b>	Product is not listed.
<b>Canadian Classification</b>	<b>WHMIS</b> Product is listed.
	<b>DSL#</b> Product is listed.

EEC Council Directives relating to the classification, packaging, and labeling of dangerous substances and preparations.

<b>Risk and Safety Phrases</b>	<b>R36</b>	Irritating to the eyes
	<b>R37</b>	Irritating to the respiratory system
	<b>R38</b>	Irritating to the skin

## Section 16 : Other Information

**Intended Use** The material is generally used for treatment of gases and liquids

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for their particular use.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Calgon Carbon Corporation makes no warranty with respect to same and disclaims all liability for reliance there on.

## References

N/A not applicable

## Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standards Institute
ATSDR	Agency for Toxic Substances and Disease Registry
C	Ceiling (limit value)
CAS#	Chemical Abstracts Service Registry Number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CEPA	Canadian Environmental Protection Act
CFR	Code of Federal Regulations
DOT	Department of Transportation
DSL	Domestic Substances List
EINECS	European Inventory of Existing Commercial Chemical Substances
ERAP	Emergency Response Assistance Plan
IATA	International Air Transportation Association
IARC	International Agency for Research on Cancer
ICAO	International Civil Aviation Organization
IDLH	Immediately Dangerous to Life and Health
IMO	International Maritime Organization
IMDG	International Maritime Dangerous Goods
LC50	The concentration of material in air expected to kill 50% of a group of test animal
LD50	Lethal Dose expected to kill 50% of a group of test animals
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Association
PEL	Permissible Exposure Limit
RCRA	Resource conservation and Recovery Act
RQ	Reportable Quantity
SARA	Superfund Amendments and Reauthorization Act
STEL	Short Term Exposure Limit
TDG	Transportation of Dangerous Goods Act/Regulation
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Material Information System