



Section 1 – Identification of the substance/mixture and of the company/undertaking					
Product Identifier/Name:	Chemical Activated Carbon	CAS No.	7440-44-0	EINECS No.	231-153-3
Trade Name and Synonyms:	OxPure Chemical Activated Carbons				
Chemical Name:	Activated Carbon				
Relevant Identified Uses of the Substance or Mixture:	Liquid and vapor phase purification and catalyst applications				
Restrictions On Use:	None				
Details of the Supplier:	Oxbow Activated Carbon LLC 2535 Jason Court Oceanside, CA 92056 Phone: (760) 630-5724	Questions Contact:	Email: SDS.Support@Oxbow.com		
		Emergency Phone:	US: 1-800-222-1222 The Netherlands, Antigifcentrum +31 30 274 88 88 Belgium, Antigifcentrum +32 70 245 245 Germany, Giftnotrufzentrale-Berlin +49 30 19240 France Centre Anti-Poison +33 1 40 05 48 48 U.K Poisons Info. Center +44 20 7771 5310		
Section 2 – Hazards Identification					
Classification of the Substance or Mixture: Product is a Substance					
GHS Classification:	Not Classified	Label Elements:	Symbols: None		
CLP Classification:	Not Classified	GHS Labeling:	Signal Word: None		
		CLP Labeling:	Hazard Statement: None		
Precautionary Statement:	Activated carbon is not considered to be hazardous as defined by OSHA's Hazard Communication Standard 29 CFR 1910.1200.				
Exposure Limits:	OSHA: PEL = 15 mg/m ³ as total dust; 5 mg/m ³ as respirable fraction ACGIH: TLV = 10 mg/m ³ as total dust; 3 mg/m ³ as respirable fraction				
<p>The "nuisance dust" exposure values that are listed apply to any inert substance capable of producing airborne particulates. Excessive concentrations of activated carbon may reduce visibility, cause unpleasant deposits in the eye, ears, and nasal passages, or irritate the skin or mucous membranes by mechanical means. However, normal workplace exposure has not been determined to cause a significant health effect. Prolonged or repeated exposure to dust may cause eyes and respiratory tract irritation.</p> <p>Wet activated carbon depletes oxygen from air and, therefore, dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.</p> <p>Contact with strong oxidizers such as ozone, liquid oxygen, permanganate, etc., may result in fire.</p> <p>This product is nontoxic.</p> <p>Powdered material may form an explosive dust/air mixture.</p>					
Other Hazards:	N/A				
Section 3 – Composition / Information on Ingredients					
Substances:	Activated Carbon 100%	CAS NO.	7440-44-0	EINECS No.	231-153-3
Mixtures:	N/A				
Section 4 – First Aid Measures					
Description of First Aid Measures:	<p>Inhalation: Remove to fresh air. If breathing has stopped, administer artificial respiration and supply oxygen. If problems persist, seek medical attention.</p> <p>Eye Contact: In case of contact, immediately flush eyes with plenty of water until irritation subsides. If irritation persists, seek medical attention.</p>				



	<p>Skin Contact: Normal skin contact is not known to cause a significant health effect. Particles should be periodically washed off of skin with soap and clean water. Remove and launder contaminated clothing before reuse.</p> <p>Ingestion: If swallowed, wash mouth, do not induce vomiting. Immediately give water. Never give anything by mouth to an unconscious person. If symptoms develop, seek medical attention.</p>
Most Important Symptoms and Effects, acute and delayed:	Skin contact may cause skin irritation.
Indication of Any Immediate Medical Attention and Special Treatment Needed:	Treat symptomatically.
Section 5 – Firefighting Measures	
Extinguishing Media:	Water Spray, Dry Chemical, Foam, or Carbon Dioxide Blanket
Special Hazards Arising from the Substance or Mixture:	Material burns slowly without flame. Activated carbon which has been allowed to smolder for a long time in a confined space may accumulate carbon monoxide above its lower explosive limit. Avoid stirring up dust clouds. Under certain conditions, carbon dust/air mixtures can produce an explosive atmosphere. If there are dust clouds and sufficient ignition energy, flash fires or explosions may occur. Products of combustion may contain carbon monoxide and carbon dioxide. Do not enter permitted confined space or enclosed area without proper PPE.
Advice for Firefighters	Wear suitable protective equipment. NIOSH- approved self-contained breathing apparel may be required in a closed area.
Section 6 – Accidental Release Measures	
Personal Precautions, Protective Equipment, Emergency Procedures:	Avoid dust formation and ignition sources. Wear suitable protective equipment. See also Section 8.
Environmental Precautions:	Material is not toxic and can be picked up by sweeping, shoveling, or vacuuming. Provisions should be made to prevent washing, draining, or directing material to storm or sanitary sewers.
Methods and Material for Containment and Clean-up:	Remove material mechanically. Clean polluted areas with water. If necessary remove material with explosion-proof suction system. All local regulations regarding health and pollution must be followed for disposal of activated carbon.
Reference to Other Sections:	See also section 8.
Section 7 – Handling And Storage	
Precautions For Safe Handling:	Make sure to provide adequate ventilation in enclosed areas. Avoid conditions which create dust. Do not breathe dust. Keep product and dust away from sources of ignition. Wear adequate protective equipment. Keep away from heat and sources of ignition. No smoking near areas where material is stored or used.
Conditions For Safe Storage:	Store in a dry and cool environment. Keep away from heat and sources of ignition. Enclosed storage vessels and silos allow for hermetical seal and grounding. Access to enclosed storage of wet activated carbon should be restricted.
Incompatibilities:	Strong oxidizing acids; other strong oxidants
Specific End Use:	N/A
Section 8 – Exposure Controls / Personal Protection	



Control Parameters:	OSHA: PEL = 15 mg/m ³ as total dust; 5 mg/m ³ as respirable fraction ACGIH: TLV = 10 mg/m ³ as total dust; 3 mg/m ³ as respirable fraction
Engineering Controls	Use with adequate ventilation to maintain exposures below occupational limits. Use local exhaust ventilation to control airborne dust. Dust should be controlled at point of operation.
Personal Protection Information:	<p>Respiratory Protection: Approved respirator may be necessary to maintain exposures below the acceptable limits if local exhaust ventilation is not adequate. Select appropriate NIOSH-approved protection or, as appropriate to location, a recognized equivalent and acceptable national or international consensus standard. Proper respiratory selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure and published respirator protection factors.</p> <p>Eye Protection: Wear safety glasses with side shields and in areas of high dust concentrations wear chemical goggles.</p> <p>Hand Protection: Wear suitable gloves to prevent repeated or prolonged skin contact.</p> <p>Additional Information: Whenever works enter a vessel containing activated carbon, the vessel's oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.</p>

Section 9 – Physical and Chemical Properties

Information on Basic Physical and Chemical Properties:

Appearance:	Solid, black, no odor	Flammability:	N/A
Odor:	Odorless	Upper Flammability/Explosive Limit:	N/A
Odor Threshold:	N/A	Lower Flammability/Explosive Limit:	N/A
pH:	N/A	Vapor Pressure:	N/A
Melting Point:	N/A	Vapor Density:	N/A
Freezing Point:	N/A	Bulk Density (g/cm³):	0.50-1.00
Initial Boiling Point:	N/A	Solubility:	Insoluble
Boiling Range:	N/A	Partition Coefficient: n-octanol/water:	N/A
Flash Point:	N/A	Auto Ignition Temperature:	Not self-heating
Evaporation Rate:	N/A	Decomposition Temperature:	Not Determined
Other Info.:	N/A		

Section 10 – Stability and Reactivity

Reactivity:	N/A
Chemical Stability:	Stable under normal conditions
Hazardous Polymerization:	Will Not Occur
Possibility of Hazardous Reaction	Keep away from strong oxidizing acids; other strong oxidants.
Conditions to Avoid:	Extreme heat and open flames. Avoid accumulation of finely ground dust. Minimize generation of airborne dust. Contact with incompatible materials.
Incompatible Materials:	Heat and ignition source, strong oxidizing acids; other strong oxidants
Hazardous Decomposition Products	Material does not decompose at ambient temperatures

Section 11 – Toxicological Information

Information on Toxicological Effects:

Routes of Entry:	Inhalation, ingestion, skin, and eye contact
Acute Toxicity:	Non-toxic
Irritation:	Can be irritating to exposed skin, eyes and respiratory system.
Corrosivity:	No data available
Sensitization:	No data available



Repeated Dose Toxicity:	Without proper respiratory protection measures, particles inhaled with air in the course of years or decades may cause chronic respiratory diseases if the appropriate dust exposure limits are exceeded.
Carcinogenicity:	Potential Carcinogen by: NTP? <u>No</u> IARC? <u>No</u> OSHA? <u>No</u>
Mutagenicity:	No data available
Reproduction: Toxicity:	No data available
Section 12 – Ecological Information	
Toxicity:	N/A
Persistence and Degradability:	Not expected to degrade.
Bioaccumulation Potential:	Low bioaccumulation potential as negligible water solubility restricts route of exposure in the aquatic environment.
Mobility in Soil:	Mobility is not expected because insoluble.
Results of PBT and vpvB Assessment:	N/A
Other Adverse Effects:	No data available.
Section 13 – Disposal Considerations	
Waste Treatment Methods: All Federal, State, Local regulations and other countries regarding health and pollution must be followed. Virgin activated carbon no specified disposal methods apply. Used or spent activated carbon should be disposed of in accordance with applicable laws/regulations. Reuse or recycle material whenever possible.	
Section 14 – Transport Information	
UN Number:	N/A, Not ADR regulated, Not IMO Regulated
UN Proper Shipping Name:	N/A
Transport Hazard Class(es):	N/A
Packing Group:	N/A
Environmental Hazards:	N/A
Marine Pollutant:	No
Special Precautions for User: IMDG/IMO:	Wet activated carbon depletes oxygen from air and therefore dangerously low levels of oxygen may be encountered. Whenever workers enter a vessel containing activated carbon, the vessel(s) oxygen content should be determined and work procedures for potentially low oxygen areas should be followed.
Transportation in Bulk According to Annex II and V of MARPOL73/78 and the IBC Code	Non HME
Section 15 – Regulatory Information	
Safety Health and Environmental Regulations/ Legislation Specific for the Substance or Mixture	N/A
Chemical Safety Assessment	N/A
Section 16 – Other Information	
DISCLAIMER: All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. It relates specifically to the product designated and may not be valid for the product when used with any other materials or products or in a particular process. The information is, to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee, express or implied, is made as to its accuracy, reliability or completeness,	



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