SAFETY DATA SHEET

1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CARBON ACTIVATED**

Product code: C-3120

Product use: For laboratory or industrial use only

Supplier: Cochimbec Inc.
8561 chemin Dalton
Town of Mount-Royal, Québec
H4T 1V5 CANADA

Telephone: 514-990-1935
Emergency Telephone: (CANUTEC): 613-996-6666

2 – HAZARDS IDENTIFICATION

GHS Classification: Flammable solids (Category 2)
Eye irritation (Category 2A)
Respiratory irritant (Category 3)

Signal word:		**Warning**
Hazard statement:	H228	Flammable solid.
	H316	Causes mild skin irritation.
	H320	Causes eye irritation.
	H335	May cause respiratory irritation.
Precautionary statement:	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P241	Use explosion-proof [electrical/ventilation/lighting/…] equipment.
	P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
	P264	Wash skin thoroughly after handling.
	P271	Use only outdoors or in a well-ventilated area.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P370 + P378	In case of fire: Use dry sand, dry chemical, alcohol-resistant foam to extinguish.
Other hazards:	Inhalation:	Dust may cause mild irritation to the mucous membranes and upper respiratory

		tract.
	Eyes:	Dust may cause mild irritation, probably reddening.
	Skin:	Carbon is non-toxic through skin absorption. Dust may cause mild irritation, probably reddening.
	Ingestion:	Carbon is non-toxic through ingestion. Dust may cause mild irritation to the digestive tract resulting in nausea or diarrhea.

3 – COMPOSION / INFORMATION ON INGREDIENTS

Synonyms: **Activated Charcoal**

INGREDIENT	Concentration	CAS No.	EC No.	Index No.
CARBON	100 %	7440-44-0	231-153-3	-

4 – FIRST AID MEASURES

Inhalation:	Move victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention for any breathing difficulty.
Skin contact:	Remove contaminated clothing. Rinse cautiously with soap and water for several minutes. Seek medical attention if irritation persists.
Eye contact:	Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
Ingestion:	Drink a large volume of water. Seek medical attention.
Most important symptoms / effects	Breathing difficulties. Irritation and redness of the eyes.

5 – FIRE-FIGHTING MEASURES

Extinguishing media:	Water spray, alcohol resistant foam, dry chemical, carbon dioxide.
Combustion Exposure Hazards:	Hazardous decomposition products formed under fire conditions: Carbon Monoxide and Carbon Dioxide. Contact of activated carbon with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion. Under certain conditions, any airborne dust may be an explosion hazard.
Fire-Fighting equipment and precaution:	Wear self-contained breathing apparatus for firefighting all inside fires and large outdoor fires.
Sensitivity to mechanical impact:	Not sensitive.
Sensitivity to static discharge:	N/D

NFPA Risk 0=Low 4=High	HEALTH	FLAMMABILITY	REACTIVITY	HAZARDS
	0	1	0	

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use personal protective equipment. Avoid contact with skin and eyes. Avoid inhaling dust. Use explosion proof equipment. Keep away for sources of ignition. Keep unnecessary personnel away.

	Use ventilation. Avoid accumulation of dust that can form explosive concentrations.
Environmental Precautions:	Carbon is not soluble in water; however, dust particles can cause a particulate emission if discharged to waterways. Avoid product entering into sewers and drains.
Method & Material for containment and cleaning up:	Contain spillage while wearing personal protection. Vacuum, shovel or sweep up spilled material, neutralize and place in suitable container for disposal. Product must be placed in a container for disposal according to local, state and federal regulations.

7 – HANDLING AND STORAGE

Precautions for safe handling:	Follow good handling and housekeeping practices to minimize spills, generation of airborne dusts, and accumulation of dusts on exposed surfaces. Use with adequate exhaust ventilation. Wear personal protective equipment. Keep away from sources of ignition. Protect container from physical damage. Avoid prolonged contact with eyes and skin. Do not get on skin, eyes and clothing. Do not breath dust. Wash exposed skin with soap and water after handling.
Conditions for Safe Storage:	Store in a cool, dry place, closed container in a well-ventilated area. Dry airtight storage recommended. Store away from strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. Keep away from heat, flames and other ignition sources.

8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

COMPONENT	CAS-No	VALUE	CONTROL PARAMETERS	BASIS
CARBON	7440-44-0	TWA 8-hr Total dust	10 mg/m^3	ACGIH for Particulate (Insoluble) Not Otherwise Classified
		TWA 8-hr Respirable Fraction	3 mg/m^3	ACGIH for Particulate (Insoluble) Not Otherwise Classified
		PEL for Nuisance Dust	15 mg/m^3	USA. OSHA – PEL
		PEL for Nuisance Dust (Respirable limit)	5 mg/m^3	USA. OSHA – PEL

Eye Protection:	Safety glasses or chemical safety goggles.
Hand Protection:	Use appropriate gloves.
Body Protection:	Use impervious apron or body suit.
Respiratory Protection:	Use of NIOSH (US) or CEN (EU) approved particulate filter is recommended if dust is generated during handling.
Engineering Controls:	Exhaust ventilation or fume hood must be used. Note: Wet activated carbon removes oxygen from air causing a severe hazard to workers in enclosed or confined spaces.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Powder	**Auto ignition temperature:**	>220 °C
Color:	Black	**Upper Explosion Limit:**	N/D
Odour:	Odorless	**Lower Explosion Limit:**	N/D
Odour threshold::	N/D	**Vapour pressure:**	<0.01 mm Hg @ 20 °C
pH:	N/A	**Vapour density: (air = 1)**	N/A
Melting point:	N/A	**Relative density**	0.4 – 0.7
Boiling point:	N/A	**Water solubility:**	Insoluble
Boiling range:	N/A	**Decomposition temperature:**	N/D
Density	0.4 – 0.7 g/mL @ 25°C	**Refractive Index:**	N/D
Flash point:	N/A	**Viscosity:**	N/A
Evaporation rate: (n-Butyl Acetate = 1)	N/A	**Partition coeficient: n-octanol / water**	N/A

10 – STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended usage and storage conditions.
Possibility of hazardous reactions:	None will occur unless mixed with incompatible materials.
Conditions to avoid:	Heat, flames and sparks. Mixing with incompatible materials.
Incompatible materials:	Strong oxidizers such as oxygen, ozone, chlorine, permanganate, etc.. Alkali metals, liquid acids.
Hazardous decomposition products:	Hazardous decomposition products formed under fire conditions: Carbon Oxides.

11 – TOXICOLOGICAL INFORMATION

COMPONENTS	**LD_{50} ORAL**	**LD_{50} DERMAL**	**LC_{50} INHALATION**
CARBON	No data available.	No data available.	No data available.
Skin Corrosion / irritation	See section 4		
Serious eye damage / eye irritation	See section 4		
Respiratory or skin sensitisation	See section 4		
Germ cell Mutagenicity	No data available.		
Carcinogenicity	This product **does not** contain any compounds listed by IARC nor ACGIH or EPA classified as a carcinogen.		
Reproductive toxicity	No data available		
Teratogenicity	No data available		
Aspiration hazard	No data available		
Symptoms of Exposure	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.		
Synergistic effects	No data available		

Addition information	RTECS: FF5250100

12 – ECOLOGICAL INFORMATION

COMPONENTS	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to algea
CARBON	No data available	No data available	No data available
Persistence and degradability	No data available		
Bioaccumulative potential	No data available		
Mobility in soil	No data available		
PBT and vPvB assessment	No data available		
Other adverse effects	No data available		

13 – DISPOSAL CONSIDERATIONS

Product	See section 6
Contaminated clothing	Wash before reusing clothes.
Contaminated packaging	Dispose as unused product above.

14 – TRANSPORT INFORMATION

	TDG	IMDG	IATA
Shipping Name:	CARBON ACTIVATED	CARBON ACTIVATED	CARBON ACTIVATED
UN-number:	UN1362	UN1362	UN1362
Class & Subclass:	4.2	4.2	4.2
Packing Group:	III	III	III
Limited Quantity:	0	0	0
ERAP Index:	N/A	N/A	N/A
ERG #:	N/A	N/A	N/A
Inhalation Toxicity:	No	No	No
Marine Pollutant	No	No	No

15 – REGULATORY INFORMATION

US Regulations	SDS complies with OSHA's Hazard Communication Rule 29
Canada Classification	Canada WHMIS 2015: Combustible dust.

16 – OTHER INFORMATION

Information on the preparation of SDS:	Prepared by Cochimbec Inc. Safety Personnel April 13, 2016 Revision 1 I.C. 1,2,24,33
Abbreviations:	ACGIH = American Conference of Governmental Industrial Hygienists ASTM = American Society for Testing and Materials BCF = Bioconcentration Factor CAS = Chemical Abstract Services CCOHS = Canadian Center for Occupational Health & Safety CEN (EU) = Committée Européen de Normalisation CERCLA = Comprehensive Environmental Response Compensation & Liability Act CFR = Code of Federal Regulations CMR = Carcinogenic-mutagenic-toxic for reproduction CPR = Controlled Products Regulations DIN = German Institute for Standardisation DOT = Department of Transport EC_{50} = Half maximal effect concentration EINECS = European Inventory of Existing Commercial Chemical Substances GHS = Global Harmonization System GLP = Good Laboratory practice GMO = Genetic Modified Organism IARC = International Agency for research on Cancer IATA = International Air Transport Association ISO = International Organisation for Standardisation IDLH = Immediate danger to life and health IMDG = International Maritime Dangerous Goods LC_{50} = Lethal concentration causing 50% death LD_{50} = Lethal dose causing 50% death LOAEL = Lowest Observed Adverse Effect Level LOEL = Lowest Observed Effect Level N/A = Not Applicable N/D = No Data N/E = Not Established NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety & Health NTP = National Toxicology Program OECD = Organisation for Economic Co-operation & Development OEL = Occupational exposure limit

	OHSC = Occupational health & safety council (committee) OSHA = Occupational Safety & Health Administration PBT = Persistent, Bioaccumulation, Toxic PEL = Permissible Exposure Limit RCRA = Resource Conservation & Recovery Act RTECS = Registry of Toxic Effects of Chemical Substances SARA = Species at Risk Act STEL = Short term exposure limit STEV = Short term exposure value STOT = Specific Target Organ Toxicity TDG = Transport of Dangerous Goods TLV = Threshold limit value TMD = Transport de Matières Dangereuses TSCA = Toxic Substance Control Act TWA = Time weighted Average TWAEV = Time weighted average exposure value UN = United Nations VOC = Volatile Organic Compounds WEEL = Workplace Environment Exposure Limit WHO = World Health Organisation WHMIS = Workplace Hazardous Material Information System W/V = Weight / Volume W/W = Weight / Weight
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End of Safety Data Sheet