




EMERGENCY NUMBERS:

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WHMIS	Protective Clothing	TDG Road/Rail
WHMIS CLASS: B-6		TDG CLASS: 4.2 PIN: UN1361 PG: III
		

Section I. Product Identification and Uses

Product name	CHARCOAL, ANIMAL (BONE BLACK)	CI#	Not available.
Chemical formula	C	CAS#	7440-44-0
Synonyms	AC-2156, 22048	Code	AC-2156
Supplier	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	Formula weight	12.011
		Supersedes	
Material uses	For laboratory use only.		

Section II. Ingredients

Name	CAS #	%	TLV
1) CHARCOAL	7440-44-0	100	Exposure limits: ACGIH 2 mg/m ³ (total dust which contain more than 1% quartz)

Toxicity values of the hazardous ingredients

 CHARCOAL:
 INTRAVENOUS (LD50): Acute: 440 mg/kg (Mouse).

Section III. Physical Data

Physical state and appearance / Odor	Solid. (Black lumps, granules or powder. Odorless.)
pH (1% soln/water)	Not applicable.
Odor threshold	Not available.
Percent volatile	0% at 21°C
Freezing point	3500°C
Boiling point	4200°C
Specific gravity	1.7-2.2 (Water = 1)
Vapor density	Not available.
Vapor pressure	Not available.
Water/oil dist. coeff.	Not available.
Evaporation rate	Not applicable.
Solubility	Insoluble in cold water.

Section IV. Fire and Explosion Data

Flash point	Not available.
Flammable limits	Not available.
Auto-ignition temperature	260°C
Fire degradation products	Oxides of carbon (CO, CO ₂).
Fire extinguishing procedures	Use flooding quantities of water. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. Cool containing vessels with flooding quantities of water.
Fire and Explosion Hazards	Flammable solid. This material in powder form is capable of creating a dust explosion. Activated carbons are not highly flammable and burn slowly without producing smoke or flame. Spontaneous heating may occur on contact with combustible materials (ex., oil). The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

Section V. Toxicological Properties

Routes of entry	Inhalation and ingestion.
Effects of Acute Exposure	May be harmful by ingestion, inhalation, or skin absorption. Target organs: respiratory system, cardiovascular system.
Eye	This product may cause redness, irritation and possible damage due to abrasiveness.
Skin	This product may cause irritation due to abrasive action. Has a low potential sensitization after contact.
Inhalation	May cause respiratory tract irritation. No specific information is available on this material.
Ingestion	No adverse effects expected. May cause mild irritation to the gastrointestinal tract.

Section V. Toxicological Properties

Effects of Chronic Overexposure Prolonged inhalation of excessive dust may produce pulmonary disorders. Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

Section VI. First Aid Measures

Eye contact Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention.

Skin contact Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. If irritation occurs or persists seek medical attention. Wash contaminated clothing before reusing.

Inhalation Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Seek immediate medical attention.

Ingestion Remove dentures if any. Watch for an obstruction in the victim's mouth. Remove if possible but do not force fingers or a hard object between the victim's teeth. Have conscious person drink several glasses of water or milk. Induce vomiting by sticking finger in throat. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. Lower the head so that the vomit will not reenter the mouth and throat.

Section VII. Reactivity Data

Stability Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

Hazardous decomp. products Not available.

Incompatibility Oxidizing agents, alkali metals, bromates, chlorates, calcium hypochlorite, ammonium nitrate, ammonium perchlorate, chlorine monoxide, chromates, dichlorine oxide, halogens, interhalogens, iodates, iodine pentoxide, nitrates, nitric acid, nitrogen oxides, nitrogen trifluoride, oils, oxides, oxosalts, oxygen, oxygen difluoride, peroxides, performic acid, peroxyfuroic acid, potassium permanganate, sodium sulfide, trioxygen difluoride, sodium borohydride, iron(II) oxide, ruthenium tetroxide, linseed oil, ketones, chromyl chloride, sulfur, phosphorus, potassium oxides, hydrogen peroxide, 2-furan percarboxylic acid, halogenated solvents.

Reaction Products Contact with other material may cause fire and/or explosion (see incompatibility). Activated carbon saturated with oil may ignite spontaneously. The spontaneous combustion in air may occur at 90-100°C. The presence of moisture in the air causes the ignition to occur more readily. Hazardous polymerization will not occur.

Section VIII. Preventive Measures

CHARCOAL, ANIMAL (BONE BLACK)

page 4/4

Protective Clothing in case of spill and leak Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Spill and leak Evacuate the area. Eliminate all sources of ignition. Sweep up and place in container for disposal. Avoid raising dust. Use non-sparking tools. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch damaged container or spilled material.

Waste disposal According to all applicable regulations.

Storage and Handling Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep container tightly closed and dry. Manipulate in a well ventilated area or under an adequate fume hood. Avoid raising dust. Take precautionary measures against electrostatic discharges. Ground the container while dispensing. Use explosion proof equipment. Use non-sparking tools. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. Protect from moisture.

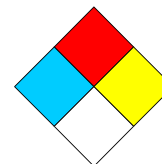
Section IX. Protective Measures

Protective clothing Splash goggles. Impervious rubber gloves, apron, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. If use conditions generate dusts, wear a NIOSH-approved respirator appropriate for those emission levels. Appropriate respirators may be a full facepiece or a half mask air-purifying cartridge respirator with particulate filters, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator. Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Do not use in unventilated spaces.

Section X. Other Information

Special Precautions or comments Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Manipulate in a well ventilated area or under an adequate fume hood. Keep away from heat, sparks and flame. Handle and open container with care. Container should be opened only by a technically qualified person. Wet activated carbon removes oxygen from air causing a severe hazard to workers inside enclosed or confined areas. RTECS NO: FF5250100 (Charcoal).



NFPA

Prepared by MSDS Department/Département de F.S..

Validated 21-Mar-2013

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