

Section 1: Identification

Product identifier:	Wood charcoal Carbon 2M Activated Charcoal™ Mayan Gold® Biochar Soil Enhancer Firefly Activated Charcoal™ Black Kitty's Odour Eliminator™
Other means of identification:	Wood coal, wood carbon, biochar, activated granular charcoal, activated charcoal powder, pelletized activated charcoal
Product use and restrictions:	Additive for plastics and concrete, water filtration, air filtration, animal feed additive, soil enhancer, horticultural soil amendment, odour control, personal care, cosmetics, veterinary care
Manufacturer / Prepared by:	Titan Clean Energy Projects Corporation PO Box 296, 501 Crossford Ave Craik, SK S0G 0V0, Canada Phone: 306-734-2222 / Fax: 306-734-2273 www.titan-projects.com
24-hour emergency phone:	CANUTEC: Phone 613-996-6666

Section 2: Hazard Identification

GHS classification:	This product is not classified as a hazardous substance or mixture according to the Hazardous Products Regulations.
Hazards not otherwise classified:	May ignite if dispersed in air.

Section 3: Composition / Information on Ingredients

Chemical names:	Carbon
Common name:	Charcoal
CAS Registry:	440-44-00
Concentration:	>75%
Ash:	<5%

Section 4: First-aid Measures

Inhalation:	If inhaled, remove victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration. If breathing is difficult, give oxygen. Seek medical attention
Ingestion:	Seek medical attention if unwell or concerned. May adsorb and interfere with medications.
Skin:	In case of contact, wash skin with soap and water, wash clothing before reuse. Seek medical attention if irritation occurs.
Eyes:	In case of contact, do not rub eyes. Let eyes naturally water to clear debris. If particle(s) persists, flush eyes with lukewarm running water for approximately 5 minutes, holding the eyelids open. Do not attempt to remove dust/debris manually. Seek medical attention if problem persists.
Most important symptoms and effects, acute and delayed:	Mild irritation of lungs if inhaled. Skin dryness. Eye irritation and redness.

Section 5: Fire-fighting Measures

Suitable extinguishing media:	Use suitable extinguishing agents for the surrounding fire. Water spray or foam is suitable to extinguish a carbon fire; however, carbon monoxide may be generated when water is used as the
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	extinguishing media. Water should only be used in a well-ventilated area.
Unsuitable extinguishing media:	Not available.
Specific hazards arising:	Oxides of carbon, including carbon monoxide may be released during combustion. Product may smolder undetected over a long period of time. Charcoal dust may ignite or explode, 0.055 kg/m ³ is the minimum explosion concentration. Freshly produced pyrolytic charcoal is subject to auto ignition and spontaneous heating when exposed to air and / or oxygen. Do not use large solid sprays of water or foam may cause dust clouds and flash fires.
Special protective equipment:	Wear NIOSH-approved self-contained apparatus (for fire-fighters: SCBA) and protective clothing.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, emergency procedures:	Wear appropriate personal protective equipment in well ventilated area. Stop or reduce leak if safe to do so. Prevent material from entering sewers or confined spaces. Notify local health and wildlife officials and Ministry of Environment.
Methods and materials for containment and cleaning up:	Clean spills in a manner that does not disperse dust into the air. Vacuum with HEPA filter is preferred. Dry sweeping is not recommended. If sweeping is necessary, pre-damp material to reduce dust. Place material into labelled containers and seal. Clean area with water if necessary Use recommended protective clothing and equipment. Spill area can be washed with water.

Section 7: Handling and Storage

Precautions for safe handling:	Inspect containers for damage or leaks prior to handling. Use proper handling equipment. If the original label is damaged or missing, replace the label. Avoid generating dust. Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Reseal containers immediately after use.
Conditions for safe storage:	Store at ambient or cool temperature in a dry, well-ventilated area, out of direct sunlight and away from heat sources. Keep away from incompatible materials including solvents and strong oxidizers. Store away from food and beverages. Store in original labelled container. Keep containers tightly closed when not in use and when empty. Protect label and keep it visible.

Section 8: Exposure

Exposure limits:	There are no known exposure limits for this product.
Engineering controls:	Mechanical ventilation must be provided (dilution or dust collection/exhaust). Process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems. Eye wash stations must be available.
Personal protective equipment:	
Eye protection:	Safety glasses with eye-shields or goggles. Contact lenses should not be worn.
Skin protection:	Gloves and coveralls.
Foot protection:	No specific requirement other than what is mandated at the workplace.
Respiratory protection:	If dust is a problem, a NIOSH/MSHA approved dust respirator suitable for non-toxic dust must be worn. All respirator devices must be fitted by a safety professional for specific individuals.

Section 9: Physical and Chemical Properties

Physical State:	Solid
Form:	Fine powder or granular
Color:	Black
Odor:	None
Odour threshold:	Not applicable
pH:	7-9
Melting point:	Sublimes > 4000 oC
Initial boiling point:	Sublimes > 4000 oC
Flash point:	Not applicable
Evaporation rate:	Not applicable
Partition Coefficient (n-octanol/water):	Not available
Flammability:	Flammable
Upper and lower flammability:	Not applicable
Vapor pressure:	1 @ 3586 °C
Vapor density:	0.4
Relative density:	150 to 500 kg / m3
Solubility in water:	Insoluble
Solubility in other solvents:	Not available
Partition coefficient:	Not available
Auto-ignition temperature:	250 to 518 oC
Decomposition temperature:	Not available
Viscosity:	Not available

Section 10: Stability and Reactivity

Reactivity:	Not available
Stability:	Stable under normal storage conditions
Possibility of hazardous reactions:	Not available
Conditions to avoid:	Heat, flames, sparks
Incompatible materials:	Solvents, strong oxidizers
Hazardous decomposition products:	Oxides of carbon including carbon monoxide and carbon dioxide

Section 11: Toxicological Information

Likely route(s) of exposure:	Eye contact, skin contact, inhalation, ingestion
Effects of short-term exposure:	Coughing or mild breathing difficulties may result
Inhalation:	May irritate mucous membranes and the respiratory tract
Skin contact:	May cause irritation or skin dryness
Eye contact:	May cause irritation
Ingestion:	May cause vomiting. Aspiration may cause pulmonary edema
Effects of long-term exposure:	Not available
Numerical measures of toxicity:	LD50: 440 mg/kg (intravenous mouse) LD50: > 2000 mg/kg body weight (oral, rat)

Section 12: Ecological Information

Ecotoxicity:	Not available
Persistence and degradability:	Not expected to readily biodegrade
Bioaccumulate potential:	This product does not bioaccumulate.
Mobility in soil:	Not water soluble; Not mobile

Section 13: Disposal Considerations

Disposal of residues and unused products: Waste disposal must be in accordance with existing federal, state/provincial and local environmental regulations including the Canadian Environmental Protection Act.

Contaminated packaging: Do not remove label, follow label warnings even after container is empty. Empty containers should be recycled or disposed of at an approved waste handling facility

Section 14: Transport Information

UN Number:	UN1361
UN proper shipping name:	Carbon
Transport hazard class(es):	4.2
Packing group	III
Environmental Hazards:	Not available
Transportation in bulk:	Not available
Special precautions:	Not available

Section 15: Regulatory Information

This safety data sheet contains all information required by the Canadian Hazardous Products Regulations.

Safety, health, and environmental regulations/legislation specific to substance: Not available

Section 16: Other Information

The responsibility to provide a safe workplace remains with the user. The above information is based on the present state of knowledge and believed to be correct; however, it does not purport to be all-encompassing and should be used only as a guide.

This SDS does not represent any guarantees of the product properties. As conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material.