SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product identifier : Anthracite Carbon
Other identifier : Not applicable
CAS No. : 8029-10-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation : Water treatment filter media
Use only as directed.

1.3. Details of the supplier of the safety data sheet

Carbon Enterprises Inc.
PO Box 787
28205 Scippo Creek Rd
Circleville, OH 43113
800-344-5770

info@ceifiltration.com
ceifiltration.com

1.4. Emergency telephone number

Emergency number 740-420-6472
9:00 AM to 4:30 PM
Monday through Friday

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Carc. 1A H350
STOT SE 3 H335
STOT RE 1 H372

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

: GHS08

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H335 - May cause respiratory irritation
H320 - May cause eye irritation
H315 - May cause temporary skin irritation
H303 - May cause irritation if ingested
Precautionary statements (GHS-US) : P261 – Avoid breathing dust/fume
P264 – Wash thoroughly after handling
Response statements (GHS-US) : P305 – IF IN EYES: Irrigate for 15 minutes
P304 – IF INHALED: Remove to fresh air
Storage statements (GHS-US) : P402 – Store in a dry place
P403 – Store in a well ventilated place
P404 – Store in a closed container

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Other Identifiers
Anthracite Carbon	(CAS No.) 8029-10-5	100	$C_{15}H_{11}O$

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact : Rinse immediately with plenty of water. Gently wash with plenty of soap and water. Obtain medical attention if irritation persists.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Seek medical attention if material is embedded in eye. If eye irritation persists: Get medical advice and attention.

First-aid measures after ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Repeated or prolonged exposure may cause chronic effects

Symptoms/injuries after inhalation : May irritate or cause inflammation or pulmonary fibrosis of the respiratory system

Symptoms/injuries after skin contact : Prolonged contact with large amounts of dust may cause mechanical irritation. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/injuries after eye contact : Redness, pain.

Symptoms/injuries after ingestion : Abdominal pain.

Chronic symptoms : Dusts may irritate the respiratory tract, skin and eyes. Prolonged exposure may cause chronic effects

4.3. Indication of any immediate medical attention and special treatment needed

Target Organs : Respiratory system and cardiovascular system

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam
Apply extinguishing media carefully to avoid creating airborne dust

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Avoid producing suspensions of dust during handling and avoid exposure of suspensions o sources of ignition. Suspensions of – 40 mesh particles may explode if exposed to strong ignition sources.

Explosion hazard : Carbon monoxide and carbon dioxide gas may be emitted upon combustion of material.

Reactivity : Contact with strong oxidizers such as ozone or liquid oxygen may cause rapid combustion.

5.3. Advice for firefighters

Precautionary measures fire : In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk.

Firefighting instructions : Apply extinguishing media careful to avoid creating airborne dust.

Protection during firefighting : Wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece, operated in positive pressure mode

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of a material from eyes, skin, and clothing.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye/face protection. Use recommended respiratory protection.

Emergency procedures : Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Although this product is not classified as an environmentally hazardous material, large or frequent spills may cause potential problems.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.
Large Spills: If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

6.4. Reference to other sections

Review section 7 (Handling and storage) of this safety data sheet before proceeding with clean-up

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Do not breathe dust.

Precautions for safe handling : Avoid dispersion into air. Keep containers dry and closed. 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 to draw dust away from workers' breathing zones. Prevent or minimize exposures to dusts by using appropriate respirators, gloves and eye protection. Wash exposed skin areas thoroughly with soap and water. Use caution when pouring, using pneumatic transport, swirling, etc. As this material can become electrostatically charged and present a dust explosion hazard.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke in areas where product is used.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry, cool place. Keep container tightly closed.

Incompatible material : Strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

Storage area : Store in dry, cool area.

Special rules on packaging : Keep container closed when not in use.

7.3. Specific end use(s)

Water treatment filter media

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Anthracite Carbon (8029-10-5)

	Result	OSHA 8 HR mg/m^3	ACGIH TLV 8 HR mg/m^3
Particulates not otherwise regulated (PNOR)	TWA	15(total)	-
		5 (respirable)	-
Particulates not otherwise classified (PNOC)	TWA	-	10 (inhalable)
		-	3 (respirable)

***Exposure limits have not been established for this material. The above are widely accepted limits for exposure to otherwise nontoxic particulates*

8.2. Exposure controls

Appropriate engineering controls : Provide ventilation if necessary to minimize exposure. General ventilation is usually acceptable, but local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Personal protective equipment : In case of dust productions; dustproof clothing. In case of dust production: protective goggles. Insufficient ventilation: wear respiratory protection. High dust production: self-contained breathing apparatus.

Hand protection : Wear appropriate dust resistant gloves

Eye protection : Safety glasses with side shields. If eye contact or dusty conditions are likely, wear dust tight goggles.

Skin and body protection : Avoid repeated or prolonged skin contact. Always wear appropriate dust resistant clothing and gloves.

Respiratory protection : If use conditions generate dust levels above TLV/PEL, wear a NIOSH-approved particulate respirator or a NIOSH-approved cartridge respirator fitted with dust filters.

Consumer exposure controls : Do not breathe dust. Wear recommended personal protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	:	Black
Odor Threshold	:	Not applicable
pH	:	Not applicable
Melting Point/Freezing Point	:	Not applicable
Initial Boiling Point/Range	:	Not applicable
Flash Point	:	Not applicable
Evaporation Rate	:	Not applicable
Upper/Lower Flammability or Explosive Limit	:	>220˚C
Vapor Pressure	:	0
Vapor Density (air = 1)	:	Solid
Relative Density (water = 1)	:	0.4 to 0.7
Solubility	:	Not Soluble
Auto-ignition Temperature	:	>220˚C

9.2. Other information

Physical State : Solid

SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive under normal conditions of use

10.2. Chemical stability

Normally stable

10.3. Possibility of hazardous reactions

Not applicable

10.4. Conditions to avoid

Contact with strong oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc. may result in rapid combustion. Avoid contact with strong acids.

10.5. Incompatible materials

Oxidizers such as ozone, liquid oxygen, chlorine, permanganate, etc.

10.6. Hazardous decomposition products

Hazardous decomposition will produce carbon oxides

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely Routes of Exposure : Eye, Skin contact, Inhalation, Ingestion

Acute toxicity :

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Anthracite Carbon	Not applicable	Not applicable	Not applicable

Ingestion : Expected to be a low ingestion hazard

Inhalation : May cause damage to organs by inhalation
Excessive, long-term exposure by inhalation to coal dust may lead to a condition called workers' pneumoconiosis (or "Black Lung"). This condition may be characterized by cough, shortness of breath, reduction in pulmonary function, pulmonary hypertension, bronchitis, emphysema and premature death.

Skin Corrosion/Irritation : Skin contact is expected to be slightly irritating.

Serious Eye Damage/Irritation : Eye contact can cause conjunctivitis, epithelial hyperplasia of the cornea, as well as eczematous inflammation of the eyelids

STOT (Specific Target Organ Toxicity) – Single Exposure

- Inhalation : Not classified
- Skin Absorption : Not classified
- Ingestion : Not classified

Aspiration Hazard : Not available

STOT (Specific Target Organ Toxicity) – Repeated Exposure

May cause damage to organs through prolonged or repeated exposure

Respiratory and/or Skin Sensitization : May cause irritation on prolonged contact

Carcinogenicity : There are no known carcinogenic/mutagenic effects

Reproductive Toxicity

- Development of Offspring : Non-hazardous by WHMIS/OSHA criteria
- Sexual Function and Fertility : Non-hazardous by WHMIS/OSHA criteria

Germ Cell Mutagenicity : Non-hazardous by WHMIS/OSHA criteria

Other Effects : None Known

SECTION 12: Ecological information

12.1. Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and degradability

No data is available on the degradability of this product.

12.3. Bio accumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Other adverse effects

No other adverse effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component

SECTION 13: Disposal considerations

13.1. Disposal methods

Review federal, state/provincial, and local government requirements prior to disposal. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations

SECTION 14: Transport information

Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of the product will appear below.

14.1. UN number

Not applicable to unused finished product

14.2. UN proper shipping name

Not applicable to unused finished product

14.3. Overland transport

Not applicable to unused finished product

14.4. Transport by sea

Not applicable to unused finished product

14.5. Air transport

Not applicable to unused finished product

14.6. Additional information

Not applicable to unused finished product

This material does not meet the definition of a self-heating substance (Class 4.2) as determined by the test protocol for a self-heating substance: United Nations Transportation of Dangerous Goods, Manual of Tests and Criteria, Part III, Section 33.3.1.6-Test N.4-Test Method for Self-Heating Substances.

SECTION 15: Regulatory information

15.1. US Federal regulations

This product is a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Supt.D)	Not regulated
CERCLA Hazardous Substance List (40 CFR 302.4)	Not listed
Clean Air Act (CAA) Section 112® Accidental Release Prevention (40CFR 68.130)	Not regulated
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated
Hazard categories	Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	Yes
SARA 311/312 Hazardous chemical	Yes
SARA 313 (TRI reporting)	Not regulated

15.2. International regulations

15.2.1. Canada

WHMIS status	Controlled
WHMIS classification	Class D Division 2 Subdivision B

WHMIS labeling	 Class D2B
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.	

15.2.2. National regulations

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)		

15.3. US State regulations

U.S. - California - Proposition 65 - Carcinogen
Not Listed

U.S. – Texas – Effects Screening Levels: Listed Substance (Anthracite, Carbon CAS 8029-10-5 is listed)
U.S. - Massachusetts - Rights To Know List (Not regulated)
U.S. - Pennsylvania - RTK (Right to Know) List (Not regulated)
U.S. – Rhode Island – RTK (Right to Know) List (Not regulated)

SECTION 16: Other information

NFPA health hazard : 1 – Slightly hazardous
NFPA fire hazard : 1 – Materials will burn above 200˚F
NFPA reactivity : 0 – Normally stable, even under fire exposure conditions, and are not reactive with water

Full text of H-phrases:

Carc. 1A	Carcinogenicity Category 1A
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H303	May cause irritation if ingested
H315	May cause temporary skin irritation
H320	May cause eye irritation
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

Key to Abbreviations:

ACGIH®	American Conference of Governmental Industrial Hygienists
OSHA	US Occupational Safety and Health Administration
HSDB®	Hazardous Substances Data Bank

CAS No. 8029-10-5

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