

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date: 07/30/2018 Version: 1.0

1.1.	Product identifier		STORMWATER TREATMENT FILTRATION MED
Produc	t name	: Stormwater Biochar	
Produc	t form	: Mixtures	SIUKMWAIEKBIUCHA
1.2.	Relevant identified uses of the	substance or mixture and uses ad	vised against
Soil an	nendment and filtration media.		
1.3.	Details of the supplier of the sa	fety data sheet	
6628 S Portlan	vater Biochar LLC E 68 th Ave d, OR 97206 T 89-6760		
1.4.	Emergency telephone number		
(503) 7	89-6760		
CTION	N 2: Hazards identification		
2.1.	Classification of the substance	or mixture	
	S classification		
	Irrit. 2A H319 nb. Dust		
2.2.	Label elements		
GHS-U	IS labelling		
Hazarc	l pictograms (GHS-US)	GHS07	
Signal	word (GHS-US)	: Warning	
Ū	I statements (GHS-US)	: May form combustible dust H319 - Causes serious eye	
Precau	tionary statements (GHS-US)	P280 - Wear eye protectior P305+P351+P338 - IF IN E contact lenses, if present a	ms and face thoroughly after handling i, protective gloves, protective clothing YES: Rinse cautiously with water for several minutes. Remov nd easy to do. Continue rinsing n persists: Get medical advice/attention
	Other hazards	, ,	
2.3.			

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Carbon	(CAS No) 7440-44-0	60 - 100*
Calcium oxide	(CAS No) 1305-78-8	1 - 3*

*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret

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SECTION 4: First aid measures

4.1. Description of first aid measure	95
First-aid measures general	: If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Ge medical attention if breathing is affected. If breathing is difficult, supply oxygen.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for least 15 minutes. If irritation develops or persists, get medical attention.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
First-aid measures after ingestion	: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poiso control center. Get medical attention if you feel unwell.
4.1. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries	: Causes serious eye irritation.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: May cause skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.

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

SECTION 5: Fire-fighting measures

5.1. No additional information a	i.1. No additional information available Extinguishing media			
Suitable extinguishing media	: Water spray. Carbon dioxide. Dry chemical. Foam. Sand.			
Unsuitable extinguishing media	: None known.			
5.2. Special hazards arising from	m the substance or mixture			
Fire hazard	: Dust may be combustible under specific conditions.			
Explosion hazard	: Dust may form explosive mixture in air.			
Reactivity	: No dangerous reactions known under normal conditions of use. Carbon oxides may be emitte upon combustion of material.			
5.3. Advice for firefighters				
Firefighting instructions	Use water spray or fog for cooling exposed containers. Wear NIOSH-approved self-contained breathing apparatus suitable for the surrounding fire. Evacuate area.			
Protection during firefighting	: Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).			



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formation. Avoid contact with eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of

6.1.	Personal precautions, protective	equipment and emergency procedures		
General	measures	: Evacuate area. Keep upwind. Ventilate area.		
6.1.1.	For non-emergency personnel			
Protecti	ve equipment	: Wear protective equipment as described in section 8.		
6.1.2.	For emergency responders			
Protectiv	ve equipment	: Use personal protective equipment as required.		
6.2.	Environmental precautions			
Prevent	entry to sewers and public waters. N	otify authorities if product enters sewers or public waters.		
6.3.	Methods and material for contain	nment and cleaning up		
For cont	tainment	: Sweep up dry powder and dispose properly. Minimize generation of dust.		
Methods	s for cleaning up	: Sweep or shovel spills into appropriate container for disposal. This material and its contain must be disposed of in a safe way, and as per local legislation.		
6.4.	Reference to other sections			
No addi	tional information available			
CTION	7: Handling and storage			
7.1.	Precautions for safe handling			

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in a well-ventilated place. Keep away from ignition sources.

ignition.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Nuisance dust		
OSHA PEL (TWA) (mg/m³)	≤ 5 mg/m³ (Respirable Fraction)	
	≤ 15(Total Dust)	
Carbon (7440-44-0)		
Remark (ACGIH)	OELs not established	
Remark (OSHA) OELs not established		
Calcium oxide (1305-78-8)		
ACGIH TWA (mg/m ³)	2 mg/m ³	
Remark (ACGIH)	Upper Respiratory Tract irritation	
OSHA PEL (TWA) (mg/m³)	5 mg/m³	

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

- : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. In situations of high dust release from product, the use of explosion-proof equipment is recommended. Ensure adequate ventilation, especially in confined areas.
- : Gloves. Safety glasses.



- : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.
 - : Use eye protection suitable to the environment. Avoid direct contact with eyes.
- : Wear long sleeves, and coveralls to minimize bodily exposure.
- : Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

Hand protection

Eye protection Skin and body protection Respiratory protection



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties		
Physical state	: Solid		
Appearance	: Pure wood carbon		
Color	: Black		
Odor	: Odorless		
Odor Threshold	: No data available		
рН	: 10.5		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
Freezing point	: No data available		
Boiling point	: No data available		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: No data available		
Log Pow	: No data available		
Log Kow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: No data available		

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use. Carbon oxides may be emitted upon combustion of material.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid dust formation. Ignition sources. Heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

Carbon (7440-44-0)			
LD50 oral rat	> 10000 mg/kg		
Calcium oxide (1305-78-8)			
LD50 oral rat	500 mg/kg		
Skin corrosion/irritation	: Not classified pH: 10.5		
Serious eye damage/irritation	: Causes serious eye irritation. pH: 10.5		
Respiratory or skin sensitisation	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified Symptoms/injuries after inhalation		
	: May cause respiratory irritation.		
Symptoms/injuries after skin contact	: May cause skin irritation.		
Symptoms/injuries after eye contact	: Causes serious eye irritation.		
Symptoms/injuries after ingestion	: May cause gastrointestinal irritation.		

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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13.1.	Waste treatment methods	
Waste tr	eatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.
Waste d	isposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

SECTION 13: Disposal considerations

In accordance with DOT
Not hazardous for
transport Additional
information
Other information

: No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Stormwater Biochar			
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		

Fire hazard

15.2. International regulations

No additional information available.

15.3. US State regulations

WARNING! This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

Arsenic (7440-38-2)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	No	No	0.06 (inhalation) 10 (except inhalation) μg/day
Nickel (7440-02-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	Not available

Arsenic (7440-38-2)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances

Chromium (7440-47-3)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances

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Nickel (7440-02-0)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) Special Hazardous Substances

Chlorine (7782-50-5)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Phosphorus elemental (7723-14-0)

- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. New Jersey Right to Know Hazardous Substance List

Ammonia (7664-41-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List

Calcium oxide (1305-78-8)

- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List

SECTION 16: Other information

Indication of changes Revision date Other information : Revision 1.0: New SDS Created. : 04/21/2017

: Author: BCS.

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