

#### SECTION 1: Identification

##### 1.1. Identification

Product form : Mixture  
Product name : StormwaterBIOCHAR™, BiocharBASIC™, BioswaleBIOCHAR™

##### 1.2. Recommended use and restrictions on use

Soil amendment and filtration media

##### 1.3. Supplier

Stormwater Biochar LLC  
6628 SE 68th Ave  
Portland, OR 97206

503-789-6760

##### 1.4. Emergency telephone number

503-789-6760



#### SECTION 2: Hazard(s) identification

##### 2.1. Classification of the substance or mixture

###### GHS-US classification

Eye Irrit. 2A H319  
Comb. Dust

##### 2.2. GHS Label elements, including precautionary statements

###### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : May form combustible dust concentrations in air  
H319 - Causes serious eye irritation.

Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear eye protection, protective gloves, protective clothing  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice/attention.

##### 2.3. Other hazards which do not result in classification

No additional information available

##### 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### SECTION 3: Composition/information on ingredients

##### 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

#### SECTION 4: First-aid measures

##### 4.1. Description of first aid measures

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.

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- First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get 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 at 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 poison control center. Get medical attention if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : Causes serious eye irritation.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : May cause skin irritation.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : May cause gastrointestinal irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Carbon dioxide. Dry chemical. Foam. Sand.
- Unsuitable extinguishing media : None known.

#### 5.2. Specific hazards arising from the chemical

- 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 emitted upon combustion of material.

#### 5.3. Special protective equipment and precautions for fire-fighters

- 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).

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear Protective equipment as described in Section 8.
- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Sweep up dry powder and dispose properly. Minimise generation of dust.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Avoid dust 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 ignition - No smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

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

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Carbon (7440-44-0)        |                                |                                    |
|---------------------------|--------------------------------|------------------------------------|
| OSHA                      | Remark (OSHA)                  | OELs not established               |
| ACGIH                     | Remark (ACGIH)                 | OELs not established               |
| Calcium oxide (1305-78-8) |                                |                                    |
| ACGIH                     | ACGIH OEL TWA                  | 2 mg/m <sup>3</sup>                |
| ACGIH                     | Remark (ACGIH)                 | Upper respiratory tract irritation |
| ACGIH                     | Regulatory reference           | ACGIH 2018                         |
| OSHA                      | OSHA PEL TWA [1]               | 5 mg/m <sup>3</sup>                |
| OSHA                      | Regulatory reference (US-OSHA) | OSHA                               |

#### 8.2. Appropriate engineering controls

Appropriate engineering controls : 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. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

#### 8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):



Personal protective equipment:

Gloves. Safety glasses. Insufficient ventilation: wear respiratory protection.

##### Hand protection:

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.

##### Eye protection:

Use eye protection suitable to the environment. Avoid direct contact with eyes.

##### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

##### Respiratory protection:

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.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Physical state                                  | : Solid             |
| Appearance                                      | : Granular solid.   |
| Color   | : Black             |
| Odor  | : Odorless          |
| Odor threshold                                  | : No data available |
| pH  | : 9.4               |
| Melting point                                   | : No data available |
| Freezing point                                  | : No data available |
| Boiling point                                   | : No data available |
| Flash point                                     | : No data available |
| Relative evaporation rate (butylacetate=1)      | : No data available |
| Flammability (solid, gas)                       | : No data available |
| Vapor pressure                                  | : No data available |
| Relative vapour density at 20 °C                | : No data available |
| Relative density                                | : No data available |
| Density   | : 0.139 g/cc        |
| Solubility                                      | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature                       | : No data available |
| Decomposition temperature                       | : No data available |
| Viscosity, kinematic                            | : No data available |
| Viscosity, dynamic                              | : No data available |
| Explosive limits                                | : No data available |
| Explosive properties                            | : No data available |
| Oxidising properties                            | : No data available |

#### 9.2. Other information

No additional information available

### 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 (CO<sub>2</sub>).

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

#### Carbon (7440-44-0)

|               |               |
|---------------|---------------|
| LD50 oral rat | > 10000 mg/kg |
|---------------|---------------|

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| <b>Calcium oxide (1305-78-8)</b>    |   |
|-------------------------------------|---|
| LD50 oral rat                       | 500 mg/kg                                   |
| Skin corrosion/irritation           | : Not classified<br>pH: 9.4                 |
| Serious eye damage/irritation       | : Causes serious eye irritation.<br>pH: 9.4 |
| Respiratory or skin sensitisation   | : Not classified                            |
| Germ cell mutagenicity              | : Not classified                            |
| Carcinogenicity                     | : Not classified                            |
| Reproductive toxicity               | : Not classified                            |
| STOT-single exposure                | : Not classified                            |
| STOT-repeated exposure              | : Not classified                            |
| Aspiration hazard                   | : Not classified                            |
| Viscosity, kinematic                | : No data available                         |
| Symptoms/effects                    | : Causes serious eye irritation.            |
| Symptoms/effects after inhalation   | : May cause respiratory irritation.         |
| Symptoms/effects after skin contact | : May cause skin irritation.                |
| Symptoms/effects after eye contact  | : Causes serious eye irritation.            |
| Symptoms/effects 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

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

#### Transport by sea (IMDG)

Not regulated for transport

#### Air transport (IATA)

Not regulated for transport

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

|  |  |
|--|--|
| <b>Rogue Biochar</b>   |  |
| All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021, or are otherwise exempt or regulated by other agencies such as FDA or FIFRA |  |
| SARA Section 311/312 Hazard Classes  | Physical hazard - Combustible dust<br>Health hazard - Serious eye damage or eye irritation |

#### 15.2. International regulations

No additional information available.

#### 15.3. US State regulations

**⚠ WARNING:** This product can expose you to Arsenic, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Component          | Carcinogenicity | Developmental toxicity | Reproductive toxicity male | Reproductive toxicity female | No significant risk level (NSRL)                          | Maximum allowable dose level (MADL) |
|--------------------|-----------------|------------------------|----------------------------|------------------------------|---|-------------------------------------|
| Arsenic(7440-38-2) | X               | X                      |                            |                              | 0.06 µg/day (inhalation)<br>10 µg/day (except inhalation) |                                     |
| Nickel(7440-02-0)  | X               |                        |                            |                              |   |                                     |

| Component                       | State or local regulations   |
|---------------------------------|--|
| 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 |
| 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; U.S. - Massachusetts - Right To Know 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; U.S. - Pennsylvania - RTK (Right to Know) 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

Revision date : 09/01/2021  
Other information : Author: JAD.

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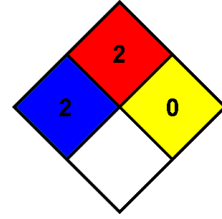
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|                    |  |
|--------------------|--|
| NFPA health hazard | : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.                     |
| NFPA fire hazard   | : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur. |
| NFPA reactivity    | : 0 - Material that in themselves are normally stable, even under fire conditions.   |
| HMIS Hazard Rating |  |
| Health             | : 2  |
| Flammability       | : 2  |
| Physical           | : 0  |



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