

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier **VITAL Blend Granular Soil Amendment**

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|---------------|------------------|
| Chemical Name | Activated Carbon |
| CAS No. | 7440-44-0 |
| Chemical Name | Humalite |
| CAS No. | 68514-28-3 |

Recommended use and restrictions on use

| | |
|----------------------|--------------------------|
| Recommended Use | Soil Amendment |
| Uses advised against | No information available |

Details of the supplier of the safety data sheet

| | |
|-------------------------------|---|
| Manufacturer and its Address: | American BioChar Company P.O. Box 962 Niles, MI 49120 |
| Telephone: | (269) 663-2224 |

Emergency Telephone Number

| | |
|----------------------------|---|
| Emergency Telephone Number | Not classified as dangerous for supply/use. Please contact the supplier above during normal business hours. |
|----------------------------|---|

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|---|--|
| OSHA HCS (29 CFR 1910.1200) / GHS Classification | Not classified as dangerous for supply/use |
|---|--|

Label Elements

| | |
|--------------------------|------|
| Hazard Symbol | None |
| Signal Words | None |
| Hazard Statements | None |
| Precautionary Statements | None |

Other hazards

Additional Information

None
May form combustible dust concentrations
in air. Mild eye irritation. May cause
respiratory irritation.

3. COMPOSITION. INFORMATION ON INGREDIENTS

| | | | |
|----------------------------|------------------|-----------------|-----------------|
| Mixture Composition | Activated Carbon | 40 – 80% by wt* | CAS #7440-44-0 |
| | Humalite | 30 – 60% by wt* | CAS #68514-28-3 |

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Description of first aid measures

| | |
|--------------|---|
| Inhalation | It is unlikely to result in an emergency situation. If necessary, remove victim to fresh air. |
| Skin Contact | Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention. |
| Eye Contact | Flush eyes with water for at least 10 minutes while holding eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention. |
| Ingestion | Not normally required. |

Most important symptoms and effects, both acute and delayed

None Known

Indication of any immediate medical attention and special treatment needed

None Known

5. FIRE FIGHTING MEASURES

Extinguishing Media

| | |
|---|---|
| Suitable Extinguishing Media | Extinguish with carbon dioxide, dry chemical, foam or water spray. |
| Unsuitable Extinguishing Media | None anticipated |
| Special hazards arising from the substance or mixture | Avoid creating dust |
| Explosion data | None |
| Advise for firefighters | A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---|-----------------------|
| Personal precautions, protective equipment and emergency procedures | Not normally required |
| Environmental precautions | Not normally required |
| Methods and material for containment and cleaning up | Not normally required |

7. HANDLING AND STORAGE

Precautions for safe handling

Not normally required

Conditions for safe storage, including any incompatibilities

Storage Temperature

Store in a dry place

Incompatible materials

Avoid strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters- Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established.

Appropriate engineering controls

Not normally required

Personal protection equipment

Eye/Face protection

Not Necessary under normal Conditions

Skin protection (Hand protection / other)

Not Necessary under normal Conditions

Respiratory protection

Not Necessary under normal Conditions

Thermal hazards

Not Necessary under normal Conditions

Environmental Exposure Controls

Not normally required

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State

Solid

Appearance

Moist Granules (approx. 0.5 - 2 mm.)

Color

Brown Black

pH value

7.5 – 9 range

Odor

Usually none, slightly smoky

Melting Point / Freezing Point

No information available

Boiling point/ boiling range

No information available

Flash Point

No information available

Evaporation Rate

No information available

Flammability (Solid gas)

No information available

Explosive Limit Ranges

Not applicable

Vapor pressure (Pascal)

Not determined

Vapor Density (Air – 1)

Not determined

Moisture Content

35 – 40% range

Bulk Density (lb/cfl)

Approx. 19.0

Solubility (Water)

Insoluble in water

Solubility (Other)

No information available

Partition Coefficient (N-Octanol/water)

No information available

Auto ignition Point (°C)

No information available

Decomposition Temperature (°C)

No information available

Kinematic Viscosity (cSt) @ 40°

No information available

Explosive properties

Not explosive

Oxidizing properties

Not oxidizing

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | Stable under normal conditions |
| Possibility of Hazardous Reactions | None under normal processing |
| Conditions to avoid | Avoid dust formation |
| Incompatible materials | Strong oxidizing agents |
| Hazardous Decomposition Products | None known based on information supplied |

11. TOXICOLOGICAL INFORMATION

| | |
|---|-----------------------------------|
| Exposure routes: | Skin contact, eye contact |
| Information on toxicological effects | |
| Acute toxicity | Not acutely toxic |
| Irritation/Corrosivity | Not to be expected |
| Sensitization | Not to be expected |
| Repeated dose toxicity | Not to be expected |
| Carcinogenicity | Not to be expected |
| Ecotoxicity | |
| Short Term | Not hazardous for the environment |
| Long Term | Not hazardous for the environment |

12. ECOLOGICAL INFORMATION

| | |
|---|------------------------------------|
| Persistence and degradability | The product is biodegradable |
| Bio-accumulative potential | No potential for bio-accumulation. |
| Mobility in soil | Low mobility in soil |
| Results of PBT and vPvB assessment | Contains no PBT/vPvB chemicals |
| Other adverse effects | None known |

13. DISPOSAL CONSIDERATIONS

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|--------------------------------|---|
| Water treatment methods | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
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14. TRANSPORT INFORMATION

| | |
|---|--|
| Ground or Water Domestic Voyage: | Not regulated as a transportation hazard |
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|-----------------------------------|
| 15. REGULATORY INFORMATION |
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Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act)

Inventory Status: All components listed are polymer exempt.

**RCRA Hazardous Waste Number
(40 CFR 261.33)**

None

US RCRA Hazard Class:

Not applicable

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4)

| Chemical Name | CAS No. | Typical % wt. | RQ (Pounds) |
|---------------|---------|---------------|-------------|
| None | --- | --- | --- |

SARA 311/312 – Hazard Categories: None

| Chemical Name | CAS No. | Typical % wt. | RQ (Pounds) |
|---------------|---------|---------------|-------------|
| None | --- | --- | --- |

**SARA 302 – Extremely Hazardous Substances (40 CFR 355):
Additional Information**

| Chemical Name | CAS No. | Typical % wt. | RQ (Pounds) |
|---------------|---------|---------------|-------------|
| None | --- | --- | --- |

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| 16. OTHER INFORMATION |
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