

Advanced Organics Carbon Based Fertilizers Inc.
DBA EarthWorks™ Natural Organic Products

SAFETY DATA SHEET

Revision Date – 05.10.2017

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: BioVantage™

1.2 Recommended use of the mixture

Identified uses: Fertilizer / Soil Amendment

1.3 Suppliers details

Company: EarthWorks, 30 Morgan Hill Rd., Easton, PA 18042, USA
Telephone: +1 800-732-8873
Fax: +1 610-250-7840

1.4 Emergency telephone number: +1 610-250-9560

2. HAZARD IDENTIFICATION

2.1 Classification of the mixture

Not a hazardous substance or mixture.

2.2 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not classified.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Pictogram:



Single word: Caution

Hazard statements

H303: May be harmful if swallowed

H320: Causes eye irritation

Precautionary Statements

P264: Wash hands thoroughly after handling.

P280: Wear eye protection

P301+312: IF SWALLOWED. Call a doctor if you feel unwell.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses if present and easy to do. Continue rinsing.

P501: Dispose of contents in accordance with local, regional, national, and international regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

	CAS Number
Sea Water	-
Kelp	-
Fish meal	-
Humates	-
Plant growth promoting rhizobacteria	-

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Consult a physician.

If inhaled

Move person into fresh air. Consult a physician.

In case of skin contact

Wash off with soap and water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact

Red skin on contiguous contact with skin.

Symptoms/injuries after eye contact

Rinse with water. Take victim to ophthalmologist.

Symptoms/injuries after ingestion

Gastrointestinal complaints. Vomiting. Nausea. Diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Alcohol-resistant foam, dry chemical or carbon dioxide can be used as extinguishing materials.



5.2 Special hazards arising from the substance or mixture

Carbon dioxide, carbon monoxide.

5.3 Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Reuse if not contaminated by other materials.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of aerosols. Do not allow to dry.

7.2 Conditions for safe storage, including any incompatibilities

Keep container dry and tightly closed. Do not store below 32°F (0°C) or exceed 99°F (37°C). Do not store in direct sunlight.

7.3 Specific end use(s)

No other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Personal protective equipment

Eye/face protection

Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH(US) or EN166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands.

Body Protection

Normal work clothes.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance	Brown liquid
Odor	Fish
Odor threshold	no data available
pH	5.2
Melting point	no data available
Boiling point	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability	no data available
Upper/lower flammability or explosive limits	no data available
Vapor pressure	no data available
Vapor density	no data available
Water solubility	soluble
N-octanol partition coefficient	no data available
Auto ignition temperature	no data available
Decomposition temperature	> 150° F (65° C)
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

9.2 Other safety data

No data available

10. STABILITY AND REACTIVITY**10.1 Reactivity**

No data available

10.2 Chemical stability

Keep container dry and tightly closed. Do not store below 40° F (4° C) or exceed 90° F (32° C).

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Do not store in direct sunlight, avoid heat >90° F (32° C).

10.5 Incompatible materials

Strong oxidizing agents, strong bases, strong acids, halogens.

10.6 Hazardous decomposition products

NO_x, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
No data available
 - 12.2 Persistence and degradability**
No data available
 - 12.3 Bioaccumulative potential**
No data available
 - 12.4 Mobility in soil**
No data available
 - 12.5 Results of PBT and vPvB assessment**
No data available
 - 12.6 Other adverse effects**
No data available
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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

No special considerations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

TSCA Inventory

Listed as UVCB; Substance of Unknown or Variable composition, Complex reaction products or Biological materials

California Proposition 65 Components

This product does not contain any chemicals known to State of California to cause cancer or reproductive toxicity.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. No representations, warranty or guarantee is made as to its accuracy, reliability or completeness. No warranty of merchantability, fitness for any other purpose other than the identified use stated herein. No other warranty, expressed or implied is made concerning the information herein provided.