

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

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**SAFETY DATA SHEET**

Revision Date – 07.11.2022

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**1.1 Product identifiers**

Product Name: Earthworks KVantage™

**1.2 Recommended use of the mixture**

Identified uses: Fertilizer

**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

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**2. HAZARD IDENTIFICATION**

**2.1 Classification of the mixture**

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

Not classified by OSHA

Ingredients are classified by Association of American Plant Food Control Officials (AAPFCO) as fertilizer ingredients

**2.2 GHS Label elements, including precautionary statements**

**Pictogram:**



**Single word:** Caution

**Hazard statements**  
none

**Precautionary Statements**

P280: Wear eye protection  
P301+312: IF SWALLOWED: Call a doctor if you feel unwell.  
P403+P233: Store in a well ventilated place. Keep container tightly closed.  
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

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

|                     | CAS Number |
|---------------------|------------|
| Potassium acetate   | 127-08-2   |
| Potassium formate   | 590-29-4   |
| Potassium carbonate | 584-08-7   |
| Kelp                | -          |
| Humic acids         | 1415-93-6  |
| Molasses            | 98476-78-8 |

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General Advice

Consult a physician.

#### If inhaled

No data available

#### In case of skin contact

Wash off with soap and water.

#### In case of eye contact

Flush eyes with water as a precaution for 15 minutes.

#### 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

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## 5. FIREFIGHTING MEASURES

- 5.1 Suitable extinguishing media**  
Alcohol-resistant foam or carbon dioxide can be used as extinguishing materials.
- 5.2 Special hazards arising from the substance or mixture**  
Nitrous oxides (NO<sub>x</sub>).
- 5.3 Advice for firefighters**  
none
- 5.4 Further information**  
none



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## 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**  
none
- 6.3 Methods and materials for containment and cleaning up**  
Reuse if not contaminated by other materials

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## 7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**  
Avoid contact with skin and eyes.
- 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 sunlight.
- 7.3 Specific end use(s)**  
Fertilizer

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**  
**Components with workplace control parameters**  
Dust from this product should not be a problem because it is a liquid.
- 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 conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves.

**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**

Do not let product enter drains.

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## 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                                           | 8.5               |
| 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

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Heat >90° F (32° C).

### 10.5 Incompatible materials

Strong oxidizing agents

## 10.6 Hazardous decomposition products

No data available

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## 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

not likely because it is a liquid

#### Additional Information

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

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

no data available

### 12.2 Persistence and degradability

non-degradable

**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.

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**14. TRANSPORT INFORMATION**

**DOT (US)**

Not dangerous goods

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**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

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**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