

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: Earthworks™ Cal-Vantage

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

	CAS Number
Calcium Nitrate	13477-34-4
Ammonium Thiosulfate	7783-18-8
Calcium Sulfate	10101-41-4
Hydrated Lime	1305-62-0
Sodium Borate	1303-96-4

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

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_x).
- 5.3 Advice for firefighters**
none
- 5.4 Further information**
none



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

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

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.

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	4.9
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	> 200° F (93° 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

Stable under normal conditions

10.2 Chemical stability

Stable under normal conditons

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

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.

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

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