

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name: **Trilogy™**

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 – all ingredients are classified by AAPFCO as fertilizer ingredients

2.2 GHS Label elements, including precautionary statements

Pictogram:



Single word: Caution

Hazard statements

H302: Harmful if swallowed
H316: Causes mild skin irritation
H320: Causes eye irritation
H335: May cause respiratory irritation

Precautionary Statements

P264: Wash skin after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312: Call a doctor if you feel unwell
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P305 + P351+ P338: IF IN EYES: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses if present and easy to do. Continue rinsing.
P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

	CAS Number
Fish Hydrolysate	n/a
Kelp	n/a
Monoammonium Phosphate	7722-76-1
Potassium nitrate	7757-79-1
Phosphoric acid	7664-38-2
Potassium hydroxide	1310-58-3
Boric acid	10043-35-3
Ferrous sulfate heptahydrate	7782-63-0
Oil seed extract	n/a
Humic acids	n/a

4. FIRST AID MEASURES

4.1 Description of first aid measures

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. Diarrhoea.

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 oxide, carbon monoxide, nitrous oxides (NO_x), potassium oxide .

5.3 Advice for firefighters

No data available

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 drying and dust formation. Avoid breathing vapors or mist. Ensure adequate ventilation. Avoid breathing dust.

6.2 Environmental precautions

none

6.3 Methods and materials for containment and cleaning up

Pick up without creating dust. Sweep up and shovel. Reuse if not contaminated by other materials.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

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)

No other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters: Dust from this product in the air should not exceed 10mg/m³

8.2 Exposure controls

Appropriate engineering controls: Avoid generating mist or vapor. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection: butyl rubber, neoprene, or rubber gloves.

Eye Protection: safety glasses.

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

Body Protection: Resistant protective clothing.

Respiratory protection: The product is a liquid; therefore this is an unlikely route of exposure.

Control of environmental exposure: None

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	6.3
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	not applicable
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	> 70° C (158° F)
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

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Sunlight, heat >99 °F (37 °C).

10.5 Incompatible materials

Strong reducing or oxidizing agents.

10.6 Hazardous decomposition products

Carbon oxide, carbon monoxide, nitrous oxides (NO_x), potassium oxide.

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: Contains 0.95% nitrates.

ACGIH: Contains potassium hydroxide. STEL limit is 2 mg/m³ for airborne material.

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

OSHA: Contains potassium hydroxide.

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

Contains potassium hydroxide. STEL limit for potassium hydroxide is 2 mg/m³ for airborne material, however, the ingredient is dissolved in water and stabilized by reaction of mixing and complexing with the other ingredients in the product.

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

may cause eutrophication.

- 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

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.

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

Abbreviations

AAPFCO: Association of American Plant Food Control Officials

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.