



SAFETY DATA SHEET

Trade Name: HoloPhos™

Version: 1.3

Version Date: December 11, 2018

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : HoloPhos™
Other Names : HoloPhos™ ultra micronized nutrient
CAS-No. : NA

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : For use in fertilizer applications.

1.3 Details of the supplier of the safety data sheet

Manufactured by: Advancing Eco Agriculture, LLC.
4551 Parks West Road
Middlefield, Ohio 44062
United States

Telephone : +1 440-632-1012

Email : info@advancingecoag.com

1.4 Emergency telephone number

Emergency Phone # : +1 440-723-2916

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification

None

2.2 GHS Label elements, including precautionary statements

Pictogram : None

Signal word : None

Hazard statement(s) : None

Precautionary statement(s)

P102 : Keep out of reach of children.

P264 : Wash skin thoroughly after handling.

P270 : Do not eat, drink or smoke when using this product.

P273 : Avoid release to the environment.

P281 : Use personal protective equipment as required.

P301 + P312 + P330 : IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 : IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 : If skin irritation occurs: Get medical advice/ attention.

P337 + P313 : If eye irritation persists: Get medical advice/ attention.

P362 + P364 : Take off contaminated clothing and wash it before reuse.

P391 : Collect spillage.

P501 : Dispose of contents/ container to an approved waste disposal plant.

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



3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous components

| Component | Classification | Concentration* |
|----------------------------------|---|----------------|
| Citric Acid | | |
| CAS Number: 77-92-9 | Eye Irrit. 2: H319 | <5% |
| Cinnamon Oil | | |
| CAS Number: 8015-91-6 | Carc. 1B: H350; Eye Irrit. 2A: H319; Aquatic chronic C3: H412; Flam. 4: H227; Mutagen 2: H341; Skin Irrit 3: H316 | <1% |
| Plant oil extract blend** | | |
| CAS Number: N/A | Acute tox. 1: H304; Carc. 2: H351; Eye Dam. 1: H318; Flam. 3: H226; Skin Irrit 2: H315; Skin Sens.1: H317 | <1% |

* Approximate weight percent. Exact weight percent is withheld as a trade secret.
**Exact product name withheld as a trade secret

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

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

Avoid breathing vapors or mist. Ensure adequate ventilation. Evacuate non-essential personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into waterways should be avoided.



6.3 Methods and materials for containment and cleaning up

Soak up or vacuum without creating mists. Keep in suitable closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of mists/aerosols. Provide appropriate ventilation. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

This product does not contain any materials with an OSHA PEL or ACGIH TLV.

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Wear safety glasses with splash guards when mixing. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear standard work clothing (long pants and long-sleeved shirt) to protect from skin exposure. Non-reactive nitrile gloves should also be worn. Use proper glove removal techniques to avoid skin exposure. Wash and dry hands after using the product. Wash any contaminated clothing prior to re-use.

Body Protection

Wear standard work clothing (long pants, long-sleeved shirt, leather or composite footwear covering entire foot).

Respiratory protection

In the case of mist or aerosol formation, use respirator with an approved filter. Use NIOSH-approved respiratory protection.

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into waterways should be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| a) Appearance | Form: liquid Color: dark brown |
| b) Odor | No data available |
| c) Odor Threshold | No data available |
| e) pH | 3.38 at 25 °C (77 °F) |
| f) Melting/freezing point | ~0°C (32°F) |
| g) Initial boiling point and boiling range | ~100°C (212°F) |
| h) Flash point | No data available |
| i) Evaporation rate | No data available |
| j) Flammability | No data available |
| k) Upper/lower flammability or explosive limit | No data available |



| | |
|--|----------------------|
| l) Vapor pressure | No data available |
| m) Vapor density | No data available |
| n) Relative density | 10.4 lbs. per gallon |
| o) Water solubility | No data available |
| p) Partition coefficient n-octanol/water | No data available |
| q) Auto-ignition temperature | No data available |
| r) Decomposition temperature | No data available |
| s) Viscosity | No data available |
| t) Explosive properties | No data available |
| u) Oxidizing properties | No data available |

9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Exposure to sunlight, freezing temperatures or heat sources

10.5 Incompatible materials

Strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – No data available
Other decomposition products - No data available. In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Oral: ATE_{mix}>5000 mg/kg
Inhalation: No data available
Dermal: 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 component 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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

California Proposition 65: This product does not contain any materials known to the State of California to cause cancer, birth defects or other reproductive harm

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

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bio-accumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

Results of PBT and vPvB assessment

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

This product is not a hazardous material regulated for transportation.

15. REGULATORY INFORMATION

This product has been classified in accordance with OSHA Hazard Communication Standard (HCS) 2012 (US), EU CLP Regulation No. 1272/2008 and Hazardous Products Regulations (HPR) (Canada).

No components of this product are reportable under SARA Sections 302.

This product may contribute to your facility reporting requirements under SARA Sections 311, 312 and/or 313. See Section 3 for a list of possibly affected chemicals.

Components of this product are listed on the TSCA, Canadian DSL and REACH inventories.

16. OTHER INFORMATION

The information contained in this Safety Data Sheet (SDS) is correct to the best of our knowledge, understanding and belief at the date of publication. This SDS is not intended to be all inclusive or exhaustive and shall be used as guidance only. The information in this document is applicable only to the product with respect to appropriate safety precautions and may not be applicable to combinations with other products. It does not represent any guarantee of the properties of the product. Advancing Eco Agriculture, LLC and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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