

SOURCE TO SOURCE Safety Data Sheet Phloem 2204

SECTION 1: Identification

1.1 Product identifier

Product name Phloem 2204

Product number

Brand Phloem

1.3 Recommended use of the chemical and restrictions on use

Micronutrient foliar spray

1.4 Supplier's details

Name Source to Source Address 3233 South I Street

Tulare, CA 93274 United States

Telephone 866.727.4572

1.5 Emergency phone number(s)

1.800.424.9300

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

- Eye damage (chapter 3.3), Cat. 1
- Skin corrosion (chapter 3.2), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P310 Immediately call a POISON CENTER/doctor/...
P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container to local and federal regulations.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. CITRIC ACID

Concentration 0.37 - 0.44 % (Weight)

CAS no. 77-92-9

2. Zinc Sulphate Monohydrate

Concentration 5.81 - 5.85 % (Weight)

CAS no. 7446-19-7

3. MANGANESE (II) SULFATE MONOHYDRATE

Concentration 6.75 - 6.8 % (Weight)

CAS no. 10034-96-5

4. UREA

Concentration 0.5172 - 0.5289 % (Weight)

CAS no. 57-13-6

5. Biuret

Concentration 0.0078 % (Weight)

CAS no. 108-19-0

6. Iron(II) sulfate heptahydrate

Concentration 1.92 - 2.13 % (Weight)

CAS no. 7782-63-0

7. Proprietary, non hazardous material

Concentration 0.96 - 0.97 % (Weight)

8. inert ingredients

Concentration 79.62 - 79.62 % (Weight)

9. D-glycero-D-gulo-Heptonic acid, sodium salt (1:1)

Concentration 2.31 - 3.47 % (Weight)

CAS no. 13007-85-7

10. BORIC ACID solution

Concentration 0.185 - 0.185 % (Weight)

EC no. 233-139-2 CAS no. 10043-35-3

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Get medical attention if symptoms

occur.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes. Get medical

attention if symptoms occur.

If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious

person. Rinse mouth with water. Consult a physician.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

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

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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 the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further

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movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. 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. Triple rinse and dispose of containers according to local and federal regulations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Boric Acid (CAS: 10043-35-3)

STEL (Inhalation): 6mg/m3 STEL (ACGIH)

(inhalable particulate matter, listed under Borate compounds, inorganic)

2. BORIC ACID (CAS: 10043-35-3)

TWA (Inhalation): 2 mgs/m3 (ACGIH)

(inhalable particulate matter, listed under Borate compounds, inorganic)

3. Zinc Sulphate Monohydrate (CAS: 7446-19-7)

TWA (Inhalation): 5 mg/m3 8 hours; USA (OSHA)

(respirable fraction)

4. Zinc Sulphate Monohydrate (CAS: 7446-19-7)

TWA (Air): 15 mg/m3 8 hours; USA (OSHA)

(total dust)

5. MANGANESE (II) SULFATE MONOHYDRATE (CAS: 10034-96-5)

TWA (Inhalation): 0.1 mg/m3; USA (ACGIH)

inhalable fraction

6. MANGANESE (II) SULFATE MONOHYDRATE (CAS: 10034-96-5)

TWA (Inhalation): 0.02 mg/m3; USA (ACGIH)

respirable fraction

7. MANGANESE (II) SULFATE MONOHYDRATE (CAS: 10034-96-5)

STEL (Inhalation): 3 mg/m3; USA (NIOSH)

fume

8. MANGANESE (II) SULFATE MONOHYDRATE (CAS: 10034-96-5)

TWA (Inhalation): 1 mg/m3; USA (NIOSH)

fume

9. UREA (CAS: 57-13-6)

TWA (Inhalation): 10 mg/m3; USA (ACGIH)

inhalation particulate

10. UREA (CAS: 57-13-6)

TWA (Inhalation): 5 mg/m3; USA (OSHA) respirable (particulate) fraction: urea

8.2 Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to

conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety goggles.

Skin protection

Wear appropriate gloves.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

No data available

Environmental exposure controls

Follow best practice for site management and disposal of waste.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.) brown, liquid Odor **SWEET** Odor threshold No data available

1.73

Hq Melting point/freezing point No data available

Initial boiling point and boiling range No data available Flash point No data available Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability limits No data available Vapor pressure No data available Vapor density No data available Relative density No data available

Solubility(ies) 100%

Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available Explosive properties No data available

SECTION 10: Stability and reactivity

Oxidizing properties

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occure.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

No data available.

Skin corrosion/irritation

Skin corrosion.

Serious eye damage/irritation

Eye Damage.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Dispose of content and/or container in accordance with local, regional, national and/or internation regulations.

Disposal of contaminated packaging

Dispose of content and/or container in accordance with local, regional, national and/or internation regulations.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: Ferrous sulfate

CAS number: 7782-63-0

Pennsylvania Right To Know Components

Chemical name: Ferrous sulfate

CAS number: 7782-63-0

SECTION 16: Other information

Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Safety Data Sheet before handling product.