



VERSION : 00001

SDS DATE : 2015/11/13

BLOOM — PROFESSIONAL 3-PART NUTRIENT SERIES

SAFETY DATA SHEET

BLOOM — PROFESSIONAL 3-PART NUTRIENT SERIES

1. IDENTIFICATION

Product name : Bloom
Chemical family : Inorganic minerals in aqueous solution
Material uses : Hydroponic plant nutrients
Supplier/Manufacturer : Emerald Harvest
1399 Corporate Center Parkway
Santa Rosa, CA 95407 USA
866-325-8235
Emergency contact : CHEMTREC, U.S. : 1-800-424-9300
International: +1-703-527-3887 (collect calls accepted)

2. HAZARD(S) IDENTIFICATION

Emergency Overview

Physical State : Liquid
Color : Not available
Odor : Not available
Signal Word : Warning
Hazard statements : May cause eye irritation
Precautionary measures : Avoid contact with eyes. Wash thoroughly after handling.
OSHA/HCS statues : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Eyes : Slightly irritating to the eye.

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.



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- Fertility effects : No known significant effects or critical hazards.
- Target Organs : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation : No known significant effects or critical hazards.
- Ingestion : No known significant effects or critical hazards.
- Skin : No known significant effects or critical hazards.
- Eyes : Symptoms may include: irritation, watering, redness
- Medical conditions aggravated by overexposure : None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS number | % |
|-------------------------|------------|-------|
| Monopotassium phosphate | 7778-77-0 | 0.5-5 |
| Potassium sulfate | 7778-80-5 | 0.5-5 |
| Magnesium sulfate | 7487-88-9 | 0.5-1 |
| | | |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. FIRST-AID MEASURES

- Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
- Skin contact : In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Inhalation : In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
- Ingestion : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Notes to physician : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE-FIGHTING MEASURES

- Flammability of the product : Not flammable

Extinguishing media

- Suitable** : Use extinguishing agent suitable for surrounding fire.
- Not suitable** : None known
- Special exposure hazards** : No special precaution is required
- Hazardous thermal decomposition products** : Decomposition products may include the following materials: sulfur oxides, phosphorus oxides, metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** :
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can

be hazardous. Do not reuse container.

- Storage** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin** : Personal protective equipment for the body should be selected based on



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the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid
Color : Not available
Odor : Not available
pH : 4.5 to 6.5
Melting/freezing point : Not available
Relative density : Not available
Solubility : Soluble

10. STABILITY AND REACTIVITY

Chemical stability : stable
Conditions to avoid : Not available
Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.
Hazardous decomposition products : Not available
Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|----------|---------|------------|----------|
| Monopotassium phosphate | OSHA PEL | Rabbit | 7950 mg/kg | |
| Potassium sulfate | OSHA PEL | rat | 6600 mg/kg | |
| Magnesium sulfate | OSHA PEL | rat | 1200 mg/kg | |

Chronic Toxicity

Irritation/Corrosion

Skin : No data available
Eyes : No data available
Respiratory : No data available



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Sensitizer

Skin : No data available

Respiratory : No data available

Carcinogenicity

There is no data available.

Mutagenicity

There is no data available.

Teratogenicity

There is no data available.

Reproductive toxicity

There is no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

| Product/ingredient | Result | Species | Exposure |
|--------------------|--------|---------|----------|
| | | | |
| | | | |
| | | | |

Persistence/degradability

13. DISPOSAL CONSIDERATIONS

Waste disposal :

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to section 7. HANDLING AND STORAGE and section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. TRANSPORT INFORMATION

| Regulatory Information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------|------------|----------------------|---------|-----|-------|------------------------|
| DOT Classification | Not listed | | | | | |
| IMDG Class | Not listed | | | | | |
| IATA-DGR Class | Not listed | | | | | |

PG*: Packing group Exemption to the above classification may apply.

AERG :



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15. REGULATORY INFORMATION

- HCS Classification : Not regulated.
- U.S. federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.
- Clean air act section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed
- Clean air act section 602 Class I substances : Not listed
- Clean air act section 602 Class II substances : Not listed
- DEA list I chemicals (Precursor chemicals) : Not listed
- DEA list II chemicals (Essential chemicals) : Not listed

SARA 313

| | Product name | CAS number | Concentration |
|---------------------------------|--------------|------------|---------------|
| Form R – Reporting requirements | | | |
| Supplier notification | | | |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- (1)Massachusetts : Not listed
- (2)New York : Not listed
- (3)New Jersey : Not listed
- (4)Pennsylvania : Not listed

California Prop.65

WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| | | | | |

16. OTHER INFORMATION

Label requirements : MAY CAUSE EYE IRRITATION.

Hazardous Material Information System (U.S.A)

- Health : 1
- Flammability : 0



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Physical hazards : 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A)

Health : 1
Flammability : 0
Instability : 0
Special : none

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History

Date of issue : 11/11/2015
Date of previous issue : none
Version : 1
Revised section(s) : Not available

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.