



Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 10.04.2019

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Crystal Green

SECTION 1: Identification

Product identifier

Product name: Crystal Green

Product code: MgNH₄PO₄·6H₂O

Recommended use of the product and restriction on use

Relevant identified uses: Slow release fertilizer.

Uses advised against: None known.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

Ostara USA, LLC

3225 Highway 630 West

Ft. Meade, FL 33841

(778) 200-3340 (office) or (778) 846-1469 (cell)

pmitchell@ostara.com

Emergency telephone number:

United States

CHEMTREC (24 hours)

North America: 1-800-424-9300

Canada: +1 703-527-3887 (CCN 849806)

For Chemical Emergencies (Spill, Leak, Fire or Accident)

SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified:

Nuisance dust may cause irritation and/or mechanical abrasion of the eye, skin and respiratory tract

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
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CAS number: 7785-21-9	Phosphoric acid, ammonium magnesium salt (1:1:1)	>97
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Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position

Maintain an unobstructed airway

Take precautions to ensure your own safety

Remove source of exposure or move person to fresh air

Get medical advice if you feel unwell or concerned

After skin contact:

Rinse affected area with soap and water

If symptoms develop or persist, seek medical attention

Take off all contaminated clothing

Gently blot or brush away excess product

After eye contact:

If symptoms develop or persist, seek medical attention

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open

Remove contact lenses, if present and easy to do so

Continue rinsing for 15-20 minutes

After swallowing:

Seek medical attention if irritation, discomfort, or vomiting persists

If swallowed, rinse mouth with water (only if the person is conscious)

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Airborne dust may cause mechanical abrasion and irritation of the eye, skin and respiratory tract

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

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Specific hazards during fire-fighting:

Toxic and irritating fumes may be produced in a fire, including: Nitrogen Oxides, Magnesium Oxides and Phosphorus Oxides

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Heating causes a rise in pressure, risk of bursting and combustion

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational
Ensure suitable personal protection during removal of spillages
Avoid generation of dust
Avoid breathing dust

Environmental precautions:

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing
Sweep or scoop up solid material while minimizing dust generation
Sweep spilled substances into containers. If appropriate, moisten first to prevent dusting
Use vacuum equipment for collecting spilt materials, where practical
Dispose of contents / container in accordance with local regulations
Transfer to a container for disposal

Reference to other sections:

See also sections 8, 13

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.
Avoid breathing dust.
Do not eat, drink, smoke or use personal products when handling chemical substances.
Wear suitable gloves.
Wash hands thoroughly after handling.
Wear recommended personal protective equipment (See Section 8).
Or add eye protection and respiratory protection if exposure to airborne dust is possible

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Keep container dry.
Store in a cool, well-ventilated area.
Keep away from heat and direct sunlight.
Store below 55°C.
Store away from incompatible materials (See Section 10.)

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

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Occupational Exposure limit values:

No occupational exposure limits noted for the ingredient(s).

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Powder/Pellets (up to 5mmdiameter).
Odor	Musty/Ammonia (when damp or heated above 55°C).
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not applicable
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.7

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Solubilities	Insoluble in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	>55°C
Dynamic viscosity	Not applicable.
Kinematic viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

Other information

Bulk Density	1 g/ml
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SECTION 10: Stability and reactivity

Reactivity:

Stable under normal conditions.

Chemical stability:

Stable under normal conditions.

Possibility of hazardous reactions:

Stable under normal conditions.

Conditions to avoid:

Heat and direct sunlight.

Incompatible materials:

Strong oxidizing agents.

Hazardous decomposition products:

Nitrogen oxides, Magnesium oxides, Phosphorus oxides.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

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Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

Fish	Low toxicity to aquatic organisms.
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Substance data: No data available.

Chronic (long-term) toxicity

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Assessment: Based on available data, the classification criteria are not met.

Product data:

Fish	Low toxicity to aquatic organisms.
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Substance data: No data available.

Persistence and degradability

Product data:

There is evidence of degradation in soil. Not persistent.

Substance data: No data available.

Bioaccumulative potential

Product data:

This substance has no potential for bioaccumulation.

Substance data: No data available.

Mobility in soil

Product data:

Insoluble in water. The substance is predicted to have low mobility in soil.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated

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UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

7785-21-9	Phosphoric acid, ammonium magnesium salt (1:1:1)	Listed
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Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

7785-21-9	Phosphoric acid, ammonium magnesium salt (1:1:1)	Not Listed
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New Jersey Right to Know:

7785-21-9	Phosphoric acid, ammonium magnesium salt (1:1:1)	Not Listed
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New York Right to Know:

7785-21-9	Phosphoric acid, ammonium magnesium salt (1:1:1)	Not Listed
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Pennsylvania Right to Know:

7785-21-9	Phosphoric acid, ammonium magnesium salt (1:1:1)	Not Listed
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California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-0-0

HMIS: 0-0-0

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End of Safety Data Sheet