
SECTION 1: Identification

1.1 GHS Product identifier

Product name Synstack™ Ratio

1.2 Other means of identification

UG 8-16-8
8-16-8

1.3 Recommended use of the chemical and restrictions on use

Agriculture / Horticultural Use Fertilizer.

1.4 Supplier's details

Name Ultra Gro LLC
Address 1043 S Granada Ave
Madera CA 93637
USA
Telephone (559) 661-0977
Email office@ultragro.com

1.5 Emergency phone number

1-800-424-9300 - CHEMTREC - U.S. Canada, Puerto Rico - 24 Hrs

SECTION 2: Hazard identification

General hazard statement

This material is not considered hazardous

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)

Not a hazardous substance or mixture.

2.2 GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Other hazards which do not result in classification

Not Classified

Statement regarding ingredients of unknown toxicity

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2012)
This material is not considered hazardous
Not a hazardous substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Polyphosphoric acids, ammonium salts

Concentration 1 - 5 % (weight)
EC no. 269-789-9
CAS no. 68333-79-9

2. Potassium phosphate Monobasic

Concentration 15 - 40 % (weight)
EC no. 231-913-4
CAS no. 7778-77-0

3. Potassium phosphate, dibasic

Concentration 10 - 30 % (weight)
CAS no. 7758-11-4

4. Urea

Concentration 3 - 7 % (weight)
EC no. 200-315-5
CAS no. 57-13-6

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5. Non-hazardous proprietary blend

Concentration

10 - 30 % (weight)

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Move to fresh air and keep comfortable, seek medical attention if unwell.
In case of skin contact	Wash affected areas with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before re-use.
In case of eye contact	Immediately flush with water for 15-20 minutes, remove contact lenses if present and easy to do – continue rinsing. Seek medical attention if irritation persists.
If swallowed	Rinse mouth. DO NOT INDUCE VOMITING unless directed by a medical professional. Seek medical attention if unwell.

4.2 Most important symptoms/effects, 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 immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use media suitable for surrounding fire. No special media required.

5.2 Specific hazards arising from the chemical

When heated to decomposition, this product will emit toxic oxides/fumes and ammonia.

5.3 Special protective actions for fire-fighters

Wear full protective clothing and positive-pressure self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Contain material and place in containers for use as intended, or discard according to Federal, State and Local regulations.

6.2 Environmental precautions

Prevent spilled material from entering storm drains or water bodies. If material enters a waterway, notify the appropriate authorities.

6.3 Methods and materials for containment and cleaning up

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

Reference to other sections

Wear PPE according to Section 8

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wash hands after handling material. Do not eat, drink or smoke while handling the material. Avoid breathing vapors/mists. Not intended for human consumption.

7.2 Conditions for safe storage, including any incompatibilities

Do not store with food or feedstuffs. Store in a cool, dry, well-ventilated area away from incompatible materials.

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

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

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

Eye/face protection

Safety glasses with sideshields, goggles, or faceshield.

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Skin protection

Appropriate for the task. Impervious and compatible with material.

Respiratory protection

NIOSH approved respirator, if required. Use with adequate ventilation

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Clear to slightly brown
Odor	slight ammonia
Odor threshold	Not applicable
Melting point/freezing point	Not available
Boiling point or initial boiling point and boiling range	Not available
Flammability	Not applicable
Lower and upper explosion limit/flammability limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
pH	7.0 - 8.0
Kinematic viscosity	Not available
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	Soluble
Vapor pressure	Not available
Evaporation rate	Not available
Density and/or relative density	1.31
Relative vapor density	Not available

SECTION 10: Stability and reactivity

10.1 Reactivity

Product is stable.

10.2 Chemical stability

Product is stable.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Strong acids, bases, oxidizers, soft metals and alloys

10.6 Hazardous decomposition products

Toxic oxides/fumes and ammonia.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acute toxicity

Oral: > 214 mg/kg (potassium hydroxide) -- 14,300 mg/kg (urea)

Dermal: > 2,730 mg/kg (phosphoric acid)

Inhalation: > 850 mg/m³ (1 hr) (phosphoric acid)

Skin corrosion/irritation

May also cause irritation of the skin,

Serious eye damage/irritation

May cause temporary and reversible eye irritation.

Respiratory or skin sensitization

May also cause irritation of the, respiratory tract, mucous membranes, and gastrointestinal tract. Inhalation may result in coughing and difficulty breathing.

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Significant overexposure could potentially result in tearing of the eyes, increased pulse rates, increased blood pressure, skin blisters, vomiting, corneal ulcers, and blindness

Germ cell mutagenicity

None of the ingredients are known / listed mutagens

Carcinogenicity

None of the ingredients are known / listed carcinogens

Reproductive toxicity

None of the ingredients are known / listed to cause reproductive harm

Summary of evaluation of the CMR properties

Not considered hazardous

Specific target organ toxicity (STOT) - single exposure

No data available

Specific target organ toxicity (STOT) - repeated exposure

No data available

Aspiration hazard

May also cause irritation of the, respiratory tract, mucous membranes, and gastrointestinal tract. Inhalation may result in coughing and difficulty breathing.

SECTION 12: Ecological information

Toxicity

Not considered hazardous

Persistence and degradability

This product is not known to be ecotoxic, or persistent.

Bioaccumulative potential

This product is not known to have the potential to bioaccumulate.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Use product for intended purpose where possible. Dispose of in accordance with all national, regional / state, and local 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

US EPA TSCA public inventory

Chemical name: Polyphosphoric acids, ammonium salts
CAS number: 68333-79-9

US EPA TSCA public inventory

Chemical name: Potassium phosphate Monobasic
CAS number: 7778-77-0

US EPA TSCA public inventory

Chemical name: Potassium phosphate, dibasic
CAS number: 7758-11-4

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US EPA TSCA public inventory

Chemical name: Urea
CAS number: 57-13-6

15.2 Chemical Safety Assessment

US EPA TSCA public inventory
Chemical name: Polyphosphoric acids, ammonium salts
CAS number: 68333-79-9

US EPA TSCA public inventory
Chemical name: Potassium phosphate Monobasic
CAS number: 7778-77-0

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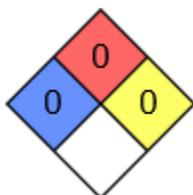
US EPA TSCA public inventory
Chemical name: Urea
CAS number: 57-13-6

SARA 311/312:	No requirements
SARA 313:	No requirements
REPORTABLE QUANTITY:	No requirements
RIGHT-TO-KNOW:	No requirements
CA PROP 65:	No requirements

HMIS Rating

Ultra Gro 8-16-8	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

The information and data contained herein is based upon facts considered to be correct as of the date hereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will Ultra Gro, LLC be responsible for damages of any nature whatsoever resulting from the use or reliance upon this information. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which this information refers.