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**SECTION 1: Identification**

**1.1 GHS Product identifier**

Product name Rhizoplex™ Ratio

**1.2 Other means of identification**

Ultra Gro 8-16-8  
UG 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

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**SECTION 2: Hazard identification**

**General hazard statement**

This material is not considered hazardous

**2.1 Classification of the substance or mixture**

**GHS classification by 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 by OSHA (29 CFR 1910.1200, 2012)

This material is not considered hazardous

Not a hazardous substance or mixture.

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**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

# Safety Data Sheet

## Rhizoplex™ Ratio

CAS no. 57-13-6

### 5. Non-hazardous proprietary blend

Concentration 10 - 30 % (weight)

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## 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, and 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 labeling (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

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

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

### 5.2 Specific hazards arising from the chemical

This product will emit toxic oxides/fumes and ammonia when heated to decomposition.

### 5.3 Special protective actions for fire-fighters

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

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

Contain material and place it 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 it into containers for later disposal. Wash the site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of the spill to prevent further movement. Recover by pumping or using suitable absorbent material and place it into containers for later disposal. Dispose in an appropriate waste container.

### Reference to other sections

Wear PPE according to Section 8

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wash hands after handling the 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 food or feedstuffs. Store in a cool, dry, well-ventilated area away from incompatible materials.

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## 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 side shields, goggles, or face shields.

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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.

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## 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	1.24
Relative vapor density	Not available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable.

### 10.2 Chemical stability

The 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.

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## 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/m<sup>3</sup> (1 hr) (phosphoric acid)

#### Skin corrosion/irritation

It may also cause irritation of the skin,

#### Severe eye damage/irritation

May cause temporary and reversible eye irritation.

#### Respiratory or skin sensitization

It may also irritate the respiratory, mucous, and gastrointestinal tract. Inhalation may result in coughing and difficulty breathing.

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Significant overexposure could result in eye tearing, 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

It 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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## 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.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Where possible, use the product for its intended purpose. Dispose of it by all national, regional / state, and local regulations.

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## SECTION 14: Transport information

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

### 15.1 Safety, health, and environmental regulations specific to 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

US EPA TSCA public inventory

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

US EPA TSCA public inventory

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

SARA 311/312:

SARA 313:

REPORTABLE QUANTITY:

RIGHT-TO-KNOW:

CA PROP 65:

No requirements

No requirements

No requirements

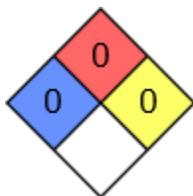
No requirements

No requirements

### HMIS Rating

RhizoPlex Ratio	
HEALTH	0
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

### NFPA Rating



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## SECTION 16: Other information

### 16.1 Further information/disclaimer

The information and data contained herein are based upon facts considered correct as of the date. Information is supplied upon the condition that the persons receiving it will determine 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, expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder concerning information or the product to which this information refers.