

## 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product Name:      GrowMate™ RS

### 1.2 Recommended use of the mixture

Identified uses:      Fertilizer

### 1.3 Suppliers details

Company:              GrowMate International LLC  
Telephone:            +1 281.866.9042  
Fax:                    +1 281.866.9714  
e-mail:                info@growmateintl.com

1.4 Emergency telephone number: +1 281.866.9042

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## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not classified

### 2.2 GHS Label elements, including precautionary statements

Pictogram:



Single word:      Caution

#### Hazard statements

H316	Causes mild skin irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

#### Precautionary Statements

P261	Avoid breathing mist
P264	Wash skin after handling
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330	If swallowed: Rinse mouth.
P302+P352	If on skin: Wash with plenty of soap and water
P305 + P351+ P338	If in eyes: Rinse cautiously with water for several minutes.
P312	Call a poison center if you feel unwell
P332	If skin irritation occurs: Get medical advice/attention
P337	If eye irritation persists: Get medical advice/attention

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

	<b>CAS Number</b>
Hydrophobic fulvic acids	-
Calcium chloride hexahydrate	7774-34-7
Magnesium sulfate heptahydrate	10034-99-8
Potassium sulfate	7778-80-5
Boric acid	10043-35-3
Copper sulfate pentahydrate	7758-99-8
Ferrous sulfate heptahydrate	7782-63-0
Zinc sulfate heptahydrate	7446-20-0

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### **General Advice**

Consult a physician.

#### **If inhaled**

Move person into fresh air. Consult a physician.

#### **In case of skin contact**

Wash off with soap and water.

#### **In case of eye contact**

Flush eyes with water as a precaution for 15 minutes.

#### **If swallowed**

Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

#### **Symptoms/injuries after skin contact**

Red skin on contiguous contact with skin.

#### **Symptoms/injuries after eye contact**

Rinse with water. Take victim to ophthalmologist.

#### **Symptoms/injuries after ingestion**

Gastrointestinal complaints, vomiting, nausea, diarrhea.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

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## 5. FIREFIGHTING MEASURES

### 5.1 Suitable extinguishing media

Alcohol-resistant foam, dry chemical or carbon dioxide can be used as extinguishing materials.

### 5.2 Special hazards arising from the substance or mixture

Carbon dioxide, carbon monoxide

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

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## 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Avoid breathing mist. Ensure adequate ventilation.

### 6.2 Environmental precautions

none

### 6.3 Methods and materials for containment and cleaning up

Contain product. Reuse if not contaminated by other materials. If contaminated absorb material with sand or clay, place in appropriate container for disposal.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of aerosols. Normal measures for preventive fire protection.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container dry and tightly closed. Do not store below 32°F (0°C) or exceed 100°F (38°C). Do not store in sunlight.

### 7.3 Specific end use(s)

No other specific uses are stipulated.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Dust from this product should not be a problem because it is a liquid. Do not allow to dry.

### 8.2 Exposure controls

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.



### 8.3 Personal protective equipment

**Eye/face protection:** Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands.

**Body Protection:** Normal work clothes.

**Respiratory protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### **Control of environmental exposure**

Do not let product enter drains.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	yellow liquid
Odor	None
Odor threshold	no data available
pH	2.7
Melting point	no data available
Boiling point	> 100° C
Flash point	no data available
Evaporation rate	no data available
Flammability	non-flammable
Upper/lower flammability	no data available
Vapor pressure	no data available
Vapor density	no data available
Water solubility	soluble
N-octanol partition coefficient	no data available
Auto ignition temperature	no data available
Decomposition temperature	> 70° C
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

### 9.2 Other safety data

no data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Keep container dry and tightly closed. Do not store above 32° C (90° F).

**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Sunlight, heat >32° C (90° F).

**10.5 Incompatible materials**

Strong oxidizing agents, strong bases

**10.6 Hazardous decomposition products**

Carbon monoxide and carbon dioxide

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**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

no data available

**Inhalation**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: Appendix A, A4 – components of this product are not classifiable as a possible human carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

not likely because it is a liquid

**Additional Information**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity**  
no data available
- 12.2 Persistence and degradability**  
non-degradable
- 12.3 Bioaccumulative potential**  
no data available
- 12.4 Mobility in soil**  
no data available
- 12.5 Results of PBT and vPvB assessment**  
no data available
- 12.6 Other adverse effects**  
no data available

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**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

No special considerations. Contact a licensed professional waste disposal service to dispose of this material.

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**14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods

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**15. REGULATORY INFORMATION****SARA 302 Components**

No quantities of chemicals in this product are subject to the reporting requirements (RQ) of SARA Title III, Section 302.

**SARA 313 Components**

No quantities of chemicals in this product are subject to the reporting requirements (RQ) of SARA Title III, Section 313.

- 12.2 Persistence and degradability**  
non-degradable
  - 12.3 Bioaccumulative potential**  
no data available
  - 12.4 Mobility in soil**  
no data available
  - 12.5 Results of PBT and vPvB assessment**  
no data available
  - 12.6 Other adverse effects**  
no data available
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### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

No special considerations. Contact a licensed professional waste disposal service to dispose of this material.

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### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

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### 15. REGULATORY INFORMATION

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

#### TSCA Inventory

Listed as UVCB; Substance of Unknown or Variable composition, Complex reaction products or Biological materials

#### California Proposition 65 Components

This product does not contain any chemicals known to State of California to cause cancer reproductive toxicity.

#### EINECS

Not listed on the European Inventory of Existing Commercial chemical Substances

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### 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. No representations, warranty or guarantee is made as to its accuracy, reliability or completeness. No warranty of merchantability, fitness for any other purpose other than the identified use stated herein. No other warranty, expressed or implied is made concerning the information herein provided