

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

1.4 Emergency telephone number: +1 281.866.9042

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| | CAS Number |
|--------------------------------|-------------------|
| 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 |

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

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

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.

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.

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.

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

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

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.

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

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

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

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

Not dangerous goods

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

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DOT (US)

Not dangerous goods

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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

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