



## Section 1 - Product and Company Identification

**Product Name** RegalGrow 4-0-0 M.A.M.

**Manufacturer or Supplier** Regal Chemical Co  
600 Branch Drive  
Alpharetta, Ga 30004

**Phone** 770-475-4837

**Emergency Phone** 770-475-4837

**Product Use** Liquid Fertilizer

## Section 2 - Hazard Identification

### Potential Health Effects

Physical hazards:

Not classified

Health hazards:

Acute toxicity, oral

Category 4

Serious eye damage/eye irritation

Category 2A

Specific target organ toxicity, single exposure

Category 3 respiratory tract irritation

Environmental hazards:

Hazardous to the aquatic environment, acute hazard Category 2

OSHA defined hazards:

Not a "Hazardous Chemical" as defined by the  
OSHA Hazard Communication Standard, 29 CFR 1910.1200

Label elements:



Signal word:

WARNING

Hazard statement:

Harmful if swallowed. Causes serious eye irritation. May cause respiratory irritation.

Precautionary statement

Prevention

Use only outdoors or in a well-ventilated area. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear eye/face protection.

Response

If swallowed: Call a poison center/doctor if you feel unwell. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse mouth. If

eye

irritation persists: Get medical advice/attention.

Hazard(s) not otherwise  
classified (HNOC)

None known.

## Section 3 - Composition and Information on Ingredients

Component Ingredients	Hazardous Percent	CAS Number	Threshold Limit Values			
			OSHA		ACGIH	
			PEL	STEL	TLV	STEL
Urea	No	57-13-6	-NONE ESTABLISHED-			
Hydrolyzed Protein Amino Acid	No	N/A	-NONE ESTABLISHED-			
Magnesium Glucoheptonate	No	68475-44-5	-NONE ESTABLISHED-			
Manganese Glucoheptonate	No	12565-60-5	-NONE ESTABLISHED-			
Ferrous Glucoheptonate	No	7785-63-0	-NONE ESTABLISHED-			

## Section 4 - First Aid Measures

☒ Skin Contact      ☒ Skin Absorption      ☒ Eye Contact      ☒ Inhalation      ☒ Ingestion

**Skin Contact** Dry and/or red itchy skin - Flush with water for 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Protect skin from contact. Causes irritation

**Skin Absorption** Dry and/or red itchy skin - Flush with water for 15 minutes. Get medical attention if irritation persists. Protect skin from contact. Causes irritation

**Eye Contact** Wear chemical type goggles. Eye irritation - Flush with water for 15 minutes. Remove contact lenses if you can. Get medical attention if irritation persists.

**Inhalation** Generally not considered an inhalation hazard. If vapors or mist causes irritation or distress, remove to fresh air. Obtain medical advice.

**Ingestion** Rinse mouth. Do not induce vomiting, contact a physician or poison control center. Seek medical attention immediately.

## Section 5 - Fire Fighting Measures

### ☐ Flammable

**Flammable Conditions** None. Solution is non-flammable

**Methods of Extinguishing** Use media suitable to extinguish source of fire. Water fog or spray, or foam.

**Flashpoint degrees (c)** N/A

**Flashpoint Method** N/A

**Autoignition Temp (c)** N/A

**Upper Flammable Limit (% by volume)** N/A

**Lower Flammable Limit (% by volume)** N/A

**Explosion - Sensitivity to Impact**

N/A

**Explosion - Sensitivity to Static Discharge**

N/A

**Protection and Procedures for Firefighters**

Use water fog or spray, foam, or dry chemical to control fire. Product is not combustible. Move containers from fire area if you can do so without risk.

**Protective Equipment for Firefighters**

Use approved self-contained breathing apparatus and full protective gear. Avoid smoke inhalation.

## Section 6 - Accidental Release Measures

**Leak and Spill Procedures**

Environmental Precautions: Keep out of water supplies, lakes, ponds, streams, and rivers. Material Released or Spilled: Promptly mop up or pump-up material and place in suitable container for use as a fertilizer or for proper disposal in accordance with local, state and federal regulations.

## Section 7 - Handling and Storage

**Handling Procedures and Equipment**

Avoid contact with eyes. Use only in well ventilated areas. Wash thoroughly after handling. Avoid prolonged or repeated contact with the skin. Keep Out of Reach of Children. Other Precautions: Transfer using chemical-resistant plastic or stainless-steel tanks, pumps, and valves. Avoid containers, piping, or fittings made of aluminum, copper-containing alloys, or galvanized steel.

**Storage Requirements**

Store in cool, dry area. Keep container closed when not in use. Keep Out of Reach of Children. Store in temperatures between 40 and 78 degrees. Avoid overheating or freezing.

## Section 8 - Exposure Controls - Personal Protection

### Specific Engineering Controls

Adequate ventilation required to maintain a fresh airflow. Take measures to minimize exposure. Provide a source of clean water for flushing eyes and skin like an eye wash station.

☒ Gloves      ☒ Respirator      ☒ Eye      ☒ Footwear      ☒ Clothing      ☐ Other

### Personal Protective Equipment

Respiratory Protection: If mist or dust conditions should be present use respirator approved by NIOSH. Eye Protection: Goggles or face shield. Skin Protection: Adequate clothing should be worn to prevent skin contact. Other Protective Clothing or Equipment: Eye bath, safety shower. Work Hygienic Practices: Wash all clothing before wearing. Wash all exposed skin surfaces with soap and water after using this product.

## Section 9 - Physical and Chemical Properties

Physical State	Liquid
Odor and Appearance	Dark Amber Color, Slight Odor
Solubility in Water	Complete
Specific Gravity	1.238
Vapor Density (air = 1)	N/A
Vapor Pressure (mmHg)	N/A
Evaporation Rate	N/A
Boiling Point (° C)	212°F (F) 100°C (C)
Freezing Point (°C)	32°F (F) 0°C (C)
pH @ 20 Celsius	4.82
Coefficient of Water/Oil Distribution	N/A
Notes	
lbs./gal	

## Section 10 - Stability and Reactivity

### ☒ Chemical Stability

#### Stability Conditions

Product is stable under normal conditions

### ☐ Incompatibility with Other Substance

#### Incompatibility conditions

Strong Acids or alkali and strong oxidizers. Water-reactive materials.

#### Reactivity Conditions

Extremely high temperatures.

#### Hazardous Decomposition Products

Ammonia, Carbon monoxide, carbon dioxide, nitrogen oxides, and phosphorous oxides.

## Section 11 - Toxicological Information

### Effects of Acute Exposure

Eye contact may cause irritation and redness.

### Effects of Chronic Exposure

Prolonged contact with skin may cause irritation or dermatitis in sensitive individuals.

<b>Irritancy</b>	Slight
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<b>Skin Sensitization</b>	Redness
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<b>Carcinogenicity - IARC</b>	No
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<b>Reproductive</b>	No
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<b>Embryotoxicity</b>	No
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<b>Respiratory Sensitize</b>	Mild
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<b>Carcinogenicity - ACGIH</b>	No
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<b>Teratogenicity</b>	No
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<b>Mutagenicity</b>	No
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## Section 12 - Ecological Information

### Ecological Information

N/A

## Section 13 - Disposal Considerations

### Waste Disposal

If product cannot be disposed of according to use directions on label. Dispose of in accordance with federal, state, and local environmental laws and regulations.

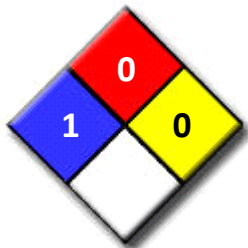
Section 14 - Transportation Information

U.S. DOT	Not Regulated
IMDG	Not Regulated
ICAO/IATA	Not Regulated

Transport Information

Other Shipping Description: Fertilizing Compounds (Manufactured), Liquid. NMFC Item 6810 Sub 6, LTL Class 70

Section 15 - Regulatory Information



Health Hazard	1	Exposure could cause irritation but only minor residual injury even if no treatment is given.
Fire Hazard	0	Materials that will not burn.
Instability	0	Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

Special Hazard

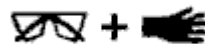
Notes	TSCA Inventory: All Components are listed on the TSCA Inventory. California Proposition 65: This product does not contain any chemicals known to the state of California to cause and/or reproductive harm.
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## Section 16 - Other Information / Warranty / Disclaimer

**Revised** 11-Feb-22

**Prepared By** Denise

<b>Health</b>	<b>1</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>B</b>



**Health Hazard** 1 Irritation or minor reversible injury possible

**Flammability** 0 Materials that will not burn

**Reactivity** 0 Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

**Personal Protection** B Safety Glasses + Gloves

### Disclaimer

HMIS Ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS ratings are not required on MSDS's by OSHA's CFR 1910.1200, we choose to provide them as a service to our customers using HMIS. These ratings are to be used only with a fully implemented HMIS program. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

NPCA recommends that employers must determine appropriate PPE for the actual conditions under which this product is used in their workplace. For information on PPE codes, consult the HMIS Implementation Manual.

When two ratings are provided for Health, the first represents the material 'as supplied,' and the second represents the material 'in use.'

### Other Information

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