



Safety Data Sheet

Issue Date: 2/28/18

Revision Date: N/a

Version: 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product Identifier

Product Name: RegalGrow 0-0-25

Trade Name and Synonyms: Potassium Thiosulfate

Other means of identification

EPA Pesticide Registration Number:

Recommended use of the chemical and restrictions on use

Recommended use: Liquid Fertilizer

Details of the supplier of the safety data sheet

Company

Regal Chemical Company
600 Branch Drive
Alpharetta, GA 30004

Emergency telephone number

Company Telephone: (770) 475-4837

Emergency Telephone: Chemtrec 1-800-262-8200

2. Hazardous Identification

Classification: Not hazardous

Signal Word (OSHA): Warning

Skin Irritation: Prolonged or repeated contact may irritate slightly.

Eye Irritation: Contact with liquid may irritate slightly.

Acute Toxicity Oral: Not tested. Components are not considered to be acutely toxic.

Acute Toxicity Dermal: No data available.

Hazard Categories: Oral/Dermal/Inhalation Toxicity 4/5/3; Eye Irritation – 2A; Skin Irritation – 2

Hazard Statement: Harmful if swallowed.
May be harmful in contact with skin.
Causes serious eye irritation.
Causes mild skin irritation.
May be harmful if inhaled.
Hazardous to environment: Aquatic

3. Composition/Information on Ingredients

Mixture

<u>Chemical Name</u>	<u>Product Identifier</u>	<u>% (w/w)</u>	<u>Classification (GHS-US)</u>
Water	(CAS No) 7732-18-5	50	Not Classified
Thiosulfuric acid (H ₂ S ₂ O ₃), dipotassium salt	(CAS No) 10294-66-3	50	Not Classified

*Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.



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4. First Aid Measures

First aid measures:

Ingestion: Drink large volumes of water and induce vomiting by placing finger at back of throat. Call a physician or poison control center.

Eye Contact: Remove contact lenses if present and easy to do. Flush eyes with water for 15 minutes, holding eyelids open. Obtain medical attention if irritation develops.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with soap and water for at least 15 minutes. Get medical attention if irritation develops.

Inhalation: Move to fresh air. Obtain medical attention if irritation develops.

In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

5. Fire-Fighting Measures

Suitable extinguishing media:

Non-combustible product. Use extinguishing media for underlying cause of fire and for surrounding fire. Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific Hazards Arising from Chemical: When heated to decomposition, emits toxic fumes.

Special protective equipment and precautions for firefighters: Wear positive-pressure self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid contact with skin and eyes. Keep unnecessary personnel out of area.

Protective Equipment: NIOSH-approved respirator for ammonia gas if mist or spray is present confined areas, impervious gloves, splash-proof goggles, impervious apron and footwear. Safety shower and eyewash should be available.

Emergency Procedures: Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product. Use appropriate PPE for clean-up crews.

Methods and material for containment and cleaning up: Contain spill. In uncontaminated, collect and reuse product. If contaminated, absorb on sand or clay and place in a recovery drum for proper disposal.



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7. Handling and Storage

Precautions for safe handling: Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment wash water or spray waste. Avoid containers, piping or fittings made of copper-containing alloys or galvanized metals. Wash hands before eating, drinking or smoking and again after leaving work.

Conditions for safe storage, including any incompatibilities: Keep out of reach of children. Do not store with food, feed or other material to be used or consumed by humans or animals. Use within 6 months of purchase date. Store unblended in original containers.

8. Exposure Controls/Personal Protection

TLV/PEL: Not established.

Appropriate Engineering Controls: Local exhaust should be sufficient.

Personal Protective Equipment: NIOSH-approved respirator in confined space if mist or spray is present, impervious gloves, splash-proof goggles, impervious apron and footwear. Safety shower and eyewash should be available.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Odor / Appearance: Clear, colorless to pale yellow liquid. Possible sulfur odor.

<u>Property</u>	<u>Values</u>
pH:	7.5
Melting point / Freezing Point	N/a
Boiling Point / Boiling Range	Over 212° F
Flash Point (Test Method)	N/a
Flammability (solid, gas)	N/a
Flammability Limits (% in air)	
Vapor Pressure	Not determined
Vapor Density	Estimated lighter than air
Relative Density	N/a
Solubility(ies)	Soluble
Partition Coefficient: n-octanol/water	N/a
Autoignition Temperature	N/a
Decomposition Temperature	N/a
Viscosity	N/a
Other	N/a



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10. Stability and Reactivity

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable at normal pressure and temperature.

Hazardous Decomposition Products: Product may release sulfur oxides and potassium oxides under fire conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Direct sunlight. Avoid high temperatures above 105° Degrees F., or greater --- acid contamination.

Incompatible Materials: Mixing or intimate contact with strongly acidic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : Not available.

Acute Toxicity (Dermal LD50): No information found

Acute Toxicity Inhalation LC50: No information found

Likely Routes of Exposure: Skin, eyes, inhalation

Skin Irritation: Prolonged or repeated contact may irritate slightly. Not classified. pH 7-8.5.

Eye Irritation: Liquid contact may irritate slightly. If mist is formed, it may also irritate slightly. Not classified. pH 7-8.5.

Skin Sensitization: Not classified.

Carcinogenic: Not listed by IARC, NTP or OSHA.

Chronic Effects: None currently known.

Other Hazards: None currently known.

Information on Toxicological Effects:

Ingredient(s) LD50 and LC50 Data

Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg
ATE (dust, mist)	100000.000 mg/l/4h

12. Ecological Information Eco-toxicity

No information found.

Persistence and Degradability: No information found

Bio-accumulative Potential: No information found

Mobility in Soil: No information found

Other Adverse Effects: May promote eutrophication in waterways if large spills occur.

13. Disposal Considerations

Waste treatment methods: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.



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14. Transport Information

DOT: This product is not regulated for shipping by DOT, IATA, or IMDG.

Transport Hazard Class: None

UN Identification Number: None

Packaging Group: None

Environmental Hazards: None

Transport in Bulk: No information found.

Special Precautions for Transportation: No information found.

Freight Classification: Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70).

15. Regulatory Information

U.S. Federal Regulations

Potassium Thiosulfate, Solution ($K_2 S_2 O_3$)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health Hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Substances Control Act Inventory)	
Thiosulfuric acid ($H_2 S_2 O_3$), dipotassium salt (10294-66-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

US State Regulations:

Neither this product nor its chemical components appear on any US state lists.



National Fire Protection Association Rating:

Health: 1

Fire: 0

Reactivity: 0

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No):

Immediate (Acute) Health: Yes

Delayed (Chronic) Health: No

Sudden Release of Pressure: No

Fire: No

Reactive: No



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16. Other Information

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