
REGULUS GROWTH INC.



MATERIAL SAFETY DATA SHEET

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MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

COMPANY NAME

REGULUS GROWTH INC.

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PRODUCT NAME

Chitosan

CHEMICAL NAME

Chitosan Oligosaccharide

2. INGREDIENTS

Deacetylation 95%

Molecule Weight < 3000 DA (90% ≤ 1000DA)

CAS-number 9012-76-4

Non-hazardous: keep dust below OSHA limit

3. PHYSICAL DATA

Form: Powder | Color: Light Brown | Odor: Characteristic | Viscosity: N/A

Solubility in Water: Soluble | Vapor Pressure: N/A

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4. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION! MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT.

Potential Health Effects

Inhalation:

May cause irritation to the respiratory tract, symptoms may include coughing.

Ingestion:

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Skin contact:

May cause skin irritation.

Eye contact:

Potential mild irritation.

Chronic Exposure:

Expected toxicity hazard none to slight.

5. TOXICOLOGICAL INFORMATION

Acute Toxicity: N/A

Chronic Effects: N/A



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6. FIRST AID MEASURES

Inhalation: In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and

shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Get medical attention.

Skin Contact Wash with water.

Eye Contact: Flush with water for 15 minutes. Seek medical advice if irritation persists.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth

to an unconscious person. Loosen tight clothing such as a collar, tie, belt or aistband. Get medical attention if symptoms appear.

7.FIRE FLIGHTING MEASURES

Extinguishing Media:

In case of fire, appropriate extinguishing media include carbon dioxide, extinguish powder or water jet. Fight large fires with alcohol-resistant foam.

Hazards from Combustion Products:

Product exhibits difficult combustion and is difficult to ignite. Combustion products include carbon monoxide and sulfur oxides.

Special Protective Precautions and Equipment for Fire:

Fire fighters should wear a self contained breathing apparatus and full protective clothing along with protective equipment.

Flammability Conditions: Non-flammable solid.

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8. ACCIDENT RELEASE MEASURES

General Information:

Clean and use water flush, Non-toxic. Non- corrosive

Neutralization chemicals: N/A

WASTE DISPOSAL METHODS: Follow all applicable federal, state and local regulations.

9. HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

10. HEALTH HAZARD INFORMATION

Inhalation: Prolonged or repeated inhalation may affect respiration, liver, and blood.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal tract irritation. May affect behavior/central nervous system (somnolence, muscle weakness, coma, and excitement).

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11. STABILITY & REACTIVITY DATA

Stability: Stable under light, to be stored in a dry, clean, dark, well ventilated, moisture proof place.

Conditions of Instability:

Excess heat, incompatible materials.

Reaction: Reactive with oxidizing agents, acids.

12. TOXICOLOGICAL INFORMATION

Swallowed: No information available on symptoms from swallowing this product.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Inhaled: Product may be irritating to the mucous membranes.

13. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Persistence and Degradability: No information available on persistence/degradability for this product.

Environmental Fate (Exposure):

Do not allow product to enter drains, waterways or sewers.

Bioaccumulative Potential: No information available on bioaccumulation for this product.

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14. DISPOSAL PROCEDURES

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

15. TRANSPORT INFORMATION

Proper Shipping Name: Chitosan

Packing: In 1Kg, 5Kg, 10Kg, 20Kg bag or 600Kg bulk bag

16. REGULATORY INFORMATION

None

17. OTHER INFORMATION

Label Hazard Warning: CAUTION! MAY CAUSE IRRITATION TO EYES AND ESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED.

Label Precautions: Keep container closed. Use with adequate ventilation. Avoid breathing dust. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing.

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Label First Aid: If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists. If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Product Use: Fertilizer

Revision Information: No Changes.

All information, recommendations and suggestions appearing herein concerning this product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety toxicity, and suitability for his own use of this product. Since the actual use by others is beyond our control, we make no guarantee, expressed or implied, as to the effects of such use. The results to be obtained, or the safety and toxicity of the product. This information is not to be construed as absolutely complete, since additional information may be necessary or desirable when exceptional conditions or circumstances exist or because of applicable laws or government regulations.
