

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifiers

Trade Name & Synonyms: Rocket 90

Product Name : Micronutrient Sulfur Mix

Product Number : 75730, 75731
Brand : Galaxy Sulfur
CAS Number : 7704-34-9

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Uses : Soil nutrient, bulk blend with N, P. K; fertilizer for direct soil applications

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier : Sales, Technical Service Shipping, Receiving

Galaxy Sulfur, LLC
P. O. Box 1165
Valdosta, Georgia 31603
Tel: (229) 244-0000
Galaxy Sulfur, LLC
1300 Spring Creek Road
Bainbridge, Georgia 39817
Tel: (229) 246-4552

Fax: (229) 245-1664 Fax: (229) 246-3245

http://www.georgiagulfsulfur.com GPS Coordinates: 30° 54′ 06″ N

84° 36′ 30″ W

1.4 Emergency Assistance

CHEMTREC Tel: (800) 424-9300 within the USA

Tel: 001-703-527-3887 outside the USA

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Skin irritation (Category 2), H315

2.2 GHS Label elements

Pictogram

 \diamondsuit

Signal word : Warning

Hazard statement

H315 : Causes skin irritation.



SECTION 2: HAZARDS IDENTIFICATION (Cont.)

2.3 Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P402 Store in a dry place.

P403 Store in a well-ventilated place. P404 Store in a closed container.

2.4 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible Dust

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Formula : S⁸

Molecular Weight : 32.07 g/mol CAS-No. : 7704-34-9 EC-No. : 231-722-6 Index-No. : 016-094-00-1

3.2 Mixture

Product	Percentage Contained	CAS Number	
Sulfur	>90%	7704-34-9	
Inert Ingredients/Filler	>10%		

3.3 Hazardous Ingredient : None

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

Skin Wash skin thoroughly with mild soap and water. Wash exposed clothing separately

before reuse.



SECTION 4: FIRST AID MEASURES (CONT)

Eye Immediately flush eyes with plenty of water for 15 minutes, while holding upper and

lower lid apart to insure rinsing of entire eye surface and lids. Do not use boric acid to

rinse with. FOR SEVERE IRRITATION, SEEK MEDICAL ATTENTION, preferably an

ophthalmologist

Inhalation Move victim to fresh air. Watch for signs of an allergic reaction. Use a bronchodilator

inhaler if directed by asthma patient. Keep victim warm and quiet. If not breathing, give artificial respiration. If heart has stopped beating, start cardiopulmonary resuscitation

(CPR). SEEK MEDICAL ATTENTION.

Ingestion Give one tablespoon of *Syrup of Ipecac* to induce vomiting. If vomiting does occur, give

fluids again. If vomiting has not occurred in twenty minutes, the same dose of *Syrup of Ipecac* may be repeated one additional time. Alternatively, vomiting may be induced by touching the back of the throat with a finger. Do not give anything by mouth to an

unconscious or convulsing person. SEEK MEDICAL ATTENTION.

4.2 Most Important Symptoms and Effects (Long-Term and Acute)

The most important known symptoms and effects are described in Section 2.2 Also, refer to Section 11: Toxicological Information

4.3 Indication of any Immediate Medical Attention or Special Treatment Needs

Individuals with known allergies to sulfide drugs may also have allergic reactions to elemental sulfur

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media Water fog, spray, alcohol-resistant foam, dry chemical, or carbon dioxide

Unsuitable Extinguishing Media Do not use solid streams of water, which could create sulfur dust clouds and

cause an explosion or could move burning sulfur to adjacent areas.

5.2 Exposure and Special Hazards Arising from the Substance or Mixture

Sulfur Oxides Prevent human exposure to smoke, fumes, or products of combustion.

5.3 Advice for Personnel

Evacuate nonessential personnel from the fire area. If large fire, evacuate people downwind from fire. Consider evacuation for ½ mile in all directions.



SECTION 5: FIREFIGHTING MEASURES (CONT)

5.4 Advice for Firefighters

Firemen exposed to contaminated smoke should be immediately relieved and checked for symptoms of exposure of toxic gases. This should not be mistaken for heat exhaustion or smoke inhalation. Seek medical attention immediately

5.5 Protective Equipment

Wear full-faced, self-contained breathing apparatus and full protective clothing.

5.6 Other Important Fire and Explosion Hazard Information

Fire will rekindle until mass is cooled below 310°F (154°C). Cool surrounding areas with water fog to prevent re-igniting. Sulfur dust is HIGHLY FLAMMABLE. If suspended in air, it will ignite by friction, static electricity, heat, sparks, or flames. Sulfur dust clouds may explode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Minor spills such as torn or ruptured containers should be repaired or patched with tape if possible. Place spilled material in a disposable container. Avoid getting dust in eyes.

6.2 Protective Equipment

Maintain adequate ventilation. Wear a dust mask when dust is present or a respirator if smoke is present. Wear safety glasses.

6.3 Emergency Procedures

As an immediate precautionary measure isolate spills or leak areas. Eliminate all sources of ignition, such as flares, sparks, or flames, in the immediate area. No smoking. Ventilate closed spaces before entering.

6.4 Environmental Precautions

Do not allow runoff to enter lakes or waterways.

6.5 Methods and Materials for Containment and Cleanup

Gently sweep or shovel up spilled material using a natural fiber broom and/or aluminum shovel to prevent sparking, to avoid creating a dust cloud. Place sweepings in an appropriate chemical waste container for reclaiming or disposal in an approved facility. Wash spill site after clean-up is complete.

6.6 Reference to Other Sections

For disposal see Section 13.



SECTION 7: STORAGE AND HANDLING

7.1 Precautions for Safe Handling

All handling and conveying equipment should be properly grounded and bonded. Be careful not to create dust.

Avoid contact with skin or eyes. Avoid any conditions that might tend to create a dust explosion. Maintain good housekeeping practices to minimize dust build-up and dispersion. Eliminate sources of ignition. Keep away from heat, sparks, and flames. Use nonferrous tools, when available, to reduce sparking. Gently sweep or shovel up spilled materials using a natural fiber broom and/or aluminum shovel to prevent sparking. Maintain adequate ventilation in all areas.

For precautions see section 2.2

7.2 Conditions for Safe Storage, Including any Incompatibilities

Containers should be stored in a cool, dry, well-ventilated area. Keep container tightly closed. Store away from flammable materials, sources of heat, flames, and sparks. Separate from chlorates, nitrates, and other oxidizing agents. Exercise due caution to prevent damage to or leakage from container.

7.3 Specific End Use(s)

Refer to Section 1.2

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Components with Workplace Control Parameters

Contains no substances with occupational exposure limit values.

8.2 Exposer Controls

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Maintain adequate ventilation in all areas. No flares or flames in area. Be careful not to create dust. Eliminate sources of ignition.

8.2.1 Personal Protective Equipment

Pictograms







8.2.2 Respiratory Wear dust masks and use NIOSH/MSHA approved dust respirator if airborne

concentrations exceed exposure limits.

8.2.3 Eyes/Face Wear suitable, protective safety glasses to prevent eye irritation from dust.

8.2.4 Hands Wash hands thoroughly after handling and before eating or smoking.



SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION (CONT)

8.2.5 Skin/Body Wear suitable, protective clothing to prevent skin irritation from dust. Wash skin

thoroughly after handling and before eating or smoking. Wash contaminated clothing

separately before reuse.

Environmental Exposure Controls Follow best practice for site management and disposal of waste. Avoid release to the

environment.

8.3 General Industrial Hygiene Considerations

Protective equipment should be used in any situation that may result in hazardous exposure. Maintain good housekeeping practices to minimize dust build-up and dispersion. Eliminate sources of ignition. Use nonferrous tools to reduce sparking. Sweep or shovel up spilled material using a natural fiber broom and/or aluminum shovel to prevent sparking. Maintain adequate ventilation in all areas.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties

Physical State Solid, powder form

Appearance Yellow powder

Formula S₈ (Rhombic or monoclinic)

Odor Odorless, or faint odor of rotten eggs

Odor Threshold No data available
pH No data available

Boiling Point 832° F (444° C)

Melting/Freezing Point 118-120°C (244-248°F)

Flash Point 207°C (405°F) Closed Cup

Evaporation Rate No data available

Flammability May form combustible dust concentrations in air

Flammable/Explosion Limits Upper: 6.38% (v) Lower: 0.17% (v)

Vapor Pressure 8mmHg at 246°C (475°F) 1mmHg at 183.8°C (362.8°F)

Vapor Density No data available

Purity 99.5% Min.

Auto-Ignition Temperature 240°C (464°F)

Decomposition Temperature Does not decompose

Viscosity Not applicable

Specific Gravity 2.07 @ 70° F



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (CONT)

Solubility in Water Insoluble

Bulk Density Powder: 33-80 lbs. /ft³

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity No Data Available

10.2 Chemical Stability Stable under recommended storage conditions.

10.3 Possibility of Possible Hazardous Reactions No Data Available

10.4 Conditions to Avoid Avoid moisture. Keep away from heat sources, sparks, and open

flames. Minimize dust generation and accumulation.

Refer to Section 2.3

10.5 Incompatible Materials No Data Available

10.6 Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions.

In an event of a fire: see Section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Likely Routes of Exposure Inhalation, ingestion, skin contact, and eye contact

11.2 Information on Toxicological Effects

11.2.1 Signs and Symptoms of Nose or throat irritation, coughing, chest discomfort, asthma, difficulty

breathing,

11.2.2 Overexposure nausea, vomiting, stinging eye irritation, skin irritation, hives.

11.2.3 Exposure Limits No exposure limits have been established

11.2.4 Acute Symptoms and Effects

Inhalation Prolonged inhalation may cause irritation of respiratory tract. Breathing of dust

may aggravate asthma and other pulmonary diseases.

Eye Contact Sulfur dust is an eye irritant.

Skin Contact No adverse effects; however, skin irritation may be aggravated in persons with

existing skin lesions.

Ingestion Ingested sulfur is converted to sulfides in the gastrointestinal tract, and

ingestion of 10 to 20 grams has caused irritation of the GI tract and renal injury.

Swallowing large amounts may cause nausea and vomiting.



SECTION 11: TOXICOLOGICAL INFORMATION (CONT)

11.2.5 Long-Term Effects None known to humans

11.3 Carinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is

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

identified as a carcinogen or potential 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. 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 of this product present at levels greater than or equal to

0.1% is on OSHA's list of regulated carcinogens. No component of this product present at levels greater than or equal to 0.1% is on OSHA's list

of regulated carcinogens.

11.4 Toxicity LD₅₀ Oral: >5050 mg/kg (rats) Dermal: >2020 mg/kg (rats)

LC₅₀ Inhalation @ 90%: >5.49-mg/L air concentration (rats)

Skin Slightly irritating (rabbits)

Eye Minimal irritation in non-washed eyes (rabbits)

<u>Sensitization</u>	Reproductive Effects	Developmental Effects	Endocrine Disruptor
Not Established	Not Established	Not Established	Not Established

<u>Carcinogenicity</u>	<u>Teratogenicity</u>	<u>Mutagenicity</u>			
This product does not contain any ingredient designated by NTP, IARC, or OSHA as a probable human carcinogen.					

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Toxicity to fish LC50- Oncorhynchus mykiss (rainbow trout) -> 180 mg/l -96h

LC50- other fish- 866 mg/l -96h

12.1.2 Toxicity to Daphnia and Other Aquatic Invertebrates

EC50- Daphnia magna (Water flea) -> 5,000 mg/l -48h

12.2 Ecotoxicity No data available

12.3 Mobility No data available

12.4 Degradation No data available

12.5 Bioaccumulation No data available

12.6 Results of PBT and vPvB Assessment PBT/vPvB assessment not available as chemical safety assessment not

required/not conducted



SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product Waste Dispose of content and/or container in accordance with local, regional, national, and/or

international regulations.

13.1.2 Packaging Waste Dispose of content and/or container in accordance with local, regional, national and/or

international regulations.

SECTION 14: TRANSPORTATION INFORMATION

Solid sulfur is not regulated if transported in non-bulk packaging (less than 400kg per package) or if formed to a specific shape, such as prills, granules, pellets, pastilles, or flakes (49 CFR 172.102, special provision 30).

US and Canadian Shipments

Bulk containers (packaging) of powdered sulfur of more than 400 kg (880 lbs.) per package

	14.1 UN number	14.2 UN proper shipping name	14.3 transport hazard class(es)	14.4 packaging group	14.5 environmental hazards
DOT	NA1350	Sulfur (Sulphur)	9 (Misc. Hazardous		No data available
(Domestic)		Can ar (Carpinar)	Materials)		
DOT	UN1350	Sulphur (Sulfur)	4	III	No data available
(International)					
TDG	UN 1350	Sulfur	4.1	III	No data available

Other than US and Canadian Shipments

All shipments of powdered sulfur

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IMO/IMDG	UN1350	Sulphur (Sulfur)	4.1 (flammable solid)	III	No data available
IATA/ICAO	UN1350	Sulfur	4.1	III	No data available

This product is not a Marine Pollutant as defined in 40 CFR Part 172.

Pictograms for Hazard Classes

Powdered sulfur packaging over 400 kg (880 lbs.) only



Special Precautions for User

None specified



SECTION 15: REGULATORY INFORMATION

15.1 TSCA This product is listed on the TSCA Inventory at CAS Registry Number 7704-34-9.

15.2 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

 If this product is accidentally spilled, it is not subject to any special reporting. We recommend that you contact state and local authorities to determine if there are

other local reporting requirements.

15.3 SARA TITLE III Superfund Amendments and Reauthorization Act, Title III

• Sections 311/312: None. Section 313: None. Section 302: None.

15.4 RCRA Resource Conservation and Recovery Act

Not subject to reporting because sulfur is not identified as a hazardous waste.

SECTION 16: OTHER INFORMATION

Last Revision Date 08/20/2020 Preparation Date 02/20/2019

Additional Information For additional information, contact your technical sales representative. For additional health and

safety information, call Georgia Gulf Sulfur Corporation at 229-244-0000.

Disclaimer/
Statement of Liability

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