

1. IDENTIFICATION

Product Name Sulfamic Acid
Recommended use Fertilizer
Supplier Valudor Products, LLC.
 179 Calle Magdalena, Suite 100
 Encinitas, CA 92024
 (760) 635-8500
Emergency Telephone (800) 535-5053 (Infotrac)

2. HAZARD IDENTIFICATION

Classification

This product considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Skin Irritation	Category 2
Eye Irritation	Category 2

Label Elements

GHS Pictograms



Signal Word
Hazard Statements

Precautionary Statements
-Prevention

-Response
Skin

Eye

Hazards not other classified

Warning

Causes skin irritation
Causes serious eye irritation

Wash thoroughly after handling
Wear eye protection/face protection/protective gloves
Take off contaminated clothing and wash it before reuse
If on skin wash with plenty of water.
If skin irritation occurs: Get medical advice/attention
If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention.
None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical name	CAS-No	Weight-%
Sulfamic acid	5329-14-6	>99.5

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact	Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Call a doctor/physician if irritation persists.
Skin Contact	Wash off immediately with plenty of water. Remove all contaminated clothes/ shoes and was before reuse. If skin irritation persists, call a doctor/physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Ingestion	Do not induce vomiting without medical advice. Rinse mouth with water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed

Symptoms	Causes skin irritation. Causes serious eye irritation.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing Media Water fog, foam, carbon dioxide (CO₂)

Unsuitable Extinguishing Media Full water Jet

Specific Hazards Arising from the chemical

Hazardous combustion products Thermal decomposition can lead to the release of irritation or toxic gases and vapors; including and not limited to: Sulphur oxides, Nitrogen oxides, Ammonia, Carbon oxides

Protective equipment and precautions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Ensure adequate ventilation.

Methods and materials for containment and cleanup

Methods for clean-up Sweep or vacuum up and place in an appropriate closed container. Keep unauthorized personnel away. Avoid generating dust.

Environmental Precautions Prevent entry into waterways or sewers

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation. Avoid contact with eye, skin and clothing. Do not breathe dust. Use personal protection recommended in section 8. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash before breaks and at the end of the workday. Clean equipment and work area regularly.

Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated place. Keep containers closed and labeled when not in use. Protect from moisture contamination. Protect against heat/sun rays. Keep away from incompatible materials (see section 10).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the regional specific regulatory bodies.

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal protective equipment.

Personal Protective Equipment

Eye/face protection	Tightly fitted safety goggles.
Skin protection	Wear protective clothing. Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid exposure to skin. Wear protective gloves. Glove material: butyl rubber, nitrile rubber. Layer thickness: 0.11 mm Breakthrough time: >480 min.
Respiratory protection	Not required under normal circumstances. If exposure limits are exceeded or if irritation or other symptoms are experienced use a NIOSH/MSHA approved respirator
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product.

9. PHYSICAL and CHEMICAL PROPERTIES

Appearance	White, crystalline
Physical state	Solid
Odor	odorless
Odor threshold	No information available
pH	At 25C / 77F: 10g/L: 1.18
Melting point / freezing point	205 C / 400 F
Boiling point / Boiling range	Not applicable
Flash point	No information available
Evaporation rate	Not applicable

Flammability	No information available
Flammability or explosive limits	
Upper	No information available
Lower	No information available
Vapor pressure	At 20 C: 0.0078 hPa
Vapor density	No information available
Specific Gravity	At 20C: 2.15 g/cm ³
Solubility in water	At 20C: 181.4 g/L
Partition coefficient	-4.34 log P(o/w) Based on the n-octanol/water partition coefficient accumulation in organisms is not expected
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Reactivity	None known under normal conditions.
Chemical stability	Stable under ordinary conditions of use and storage.
Possibility of hazardous reactions	Explosive reaction with concentrated nitric acid
Conditions to avoid	Excessive heating, humidity, dust formation, incompatible materials
Incompatible materials	Hydrochloric acid, halogens, alkalis, ammonia, oxidizing agents (nitrates, nitrites, nitric acid), nitrogen oxides (NO _x), metals with water.
Hazardous decomposition products	Hazardous combustion can lead to the release of irritating gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact	Causes skin irritation
Eye contact	Causes eye irritation
Inhalation	May cause irritation of respiratory tract
Ingestion	May be harmful if swallowed

Symptoms related to the physical chemical and toxicological characteristics

No information available

Delayed and immediate effects and also chronic effects form short and long-term exposure

Skin damage/irritation	Causes skin irritation
Eye damage/irritation	Causes serious eye irritation
Sensitization	Not classified
Mutagenic effects	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified

STOT – single exposure Not classified
 STOT – repeated exposure Not classified
 Aspiration hazard Not classified

Acute Toxicity

Component information

Component	Cas-No	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfamic Acid	5329-14-6	> 2,000 mg/kg	> 2,000 mg/kg	-

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects. Should not be released to environment.

Component	Freshwater Fish	Algae	Water Flea
Sulfamic Acid 5329-14-6	LC50: 70.3 mg/L/96 h (Pimephales promelas)	EC50: 48 mg/L/72h (Desmodesmus Subcapitata)	EC50: 71.6 mg/l/48h (Daphnia magna)

Persistence and degradability No information available

Bioaccumulative potential No information available

Mobility in soil No information available

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Processing, use, or contamination of this product may occur during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated packaging in accordance with local regulations.

14. TRANSPORT INFORMATION

DOT Regulated
UN-No 2967
Proper Shipping Name Sulfamic Acid
Hazard Class 8
Packing Group III
IATA Regulated
UN-No 2967
Proper Shipping Name Sulfamic Acid
Hazard Class 8
Packing Group III

IMDG	Regulated
UN-No	2967
Proper Shipping Name	Sulfamic Acid
Hazard Class	8
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed

US Federal Regulations

TSCA section 12(b) Export Notification

Not regulated

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).
Not applicable

SARA 311/312 Hazard Categorization

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Pressure	No
Reactivity	No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).
Not applicable

CWA (Clean Water Act)

Not applicable

US State Regulations

California Proposition 65

This product does not contain any proposition 65 chemicals

16. OTHER INFORMATION

NFPA Ratings Health: 2 Flammability: 0 Reactivity: 0

Creation Date: 9/19/2019

Revision Date:

Revision Number: 1

Revision Information: Creation

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.