

Section 1. Product and Company Identification

Product Name Sulfamic Acid
CAS Number 5329-14-6

Parchem - fine & specialty chemicals
415 Huguenot Street
New Rochelle, NY 10801
☎ (914) 654-6800 ☎ (914) 654-6899
🌐 parchem.com ✉ info@parchem.com

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS Classification

Skin Corrosion (1C) - H314
Eye Damage (1) - H318
Aquatic Acute (2) - H401

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements

Hazard Statements

H314 - Causes severe skin burns and eye damage
H401 - Toxic to aquatic life

Precautionary Statements

P260 - Do not breathe dust
P264 - Wash exposed skin thoroughly after handling
P273 - Avoid release to the environment
P280 - Wear protective gloves, eye protection, protective clothing
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact



lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a poison center/doctor
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations

First-Aid Measures

General: Check the vital functions.

Unconscious: Maintain adequate airway and respiration.

Respiratory arrest: Artificial respiration or oxygen.

Cardiac arrest: Perform resuscitation.

Victim conscious with labored breathing: Half-seated.

Victim in shock: On his back with legs slightly raised.

Vomiting: Prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain.

Depending on the victim's condition: Doctor/hospital.

Inhalation: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Doctor: administration of corticoid spray.

Skin contact: Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

Eye contact: Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.

Ingestion: Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Center. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Do not give chemical antidote.

Section 3. Composition / Information on Ingredients

Common Name Sulfamic Acid
Synonym(s) Amidosulfonic Acid
Formula $\text{NH}_2\text{SO}_3\text{H}$
CAS Number 5329-14-6

COMPONENT	CAS NUMBER	CONCENTRATION
Sulfamic Acid	5329-14-6	100%

Section 4. First Aid Measures

Flammability of the Product: Non-flammable

Auto-Ignition Temperature: Not applicable

Flash Points: Not applicable

Flammable Limits: Not applicable



Products of Combustion: Not available

Fire Hazards in Presence of Various Substances: Not applicable

Explosion Hazards in Presence of Substances

Risks of explosion of the product in presence of mechanical impact: Not available

Risks of explosion of the product in presence of static discharge: Not available

Firefighting Media and Instructions: Adapt extinguishing media to the environment

Precautionary measures fire: Exposure to fire/heat: keep upwind.

Exposure to fire/heat: Consider evacuation.

Exposure to fire/heat: Have neighborhood close doors and windows.

Firefighting instructions: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

Protection during firefighting - Heat/fire exposure: compressed air/oxygen apparatus.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Material in powder form is capable of creating a dust explosion.

Section 5. Firefighting Measures

Flammability of the Product: Non-flammable

Auto-Ignition Temperature: Not applicable

Flash Points: Not applicable

Flammable Limits: Not applicable

Products of Combustion: Not available

Fire Hazards in Presence of Various Substances: Not applicable

Explosion Hazards in Presence of Substances

Risks of explosion of the product in presence of mechanical impact: Not available

Risks of explosion of the product in presence of static discharge: Not available

Firefighting Media and Instructions: Adapt extinguishing media to the environment

Precautionary measures fire: Exposure to fire/heat: keep upwind.

Exposure to fire/heat: Consider evacuation.

Exposure to fire/heat: Have neighborhood close doors and windows.

Firefighting instructions: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

Protection during firefighting - Heat/fire exposure: compressed air/oxygen apparatus.



Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Material in powder form is capable of creating a dust explosion.

Section 6. Accidental Release Measures

For non-emergency personnel

Protective equipment: Gloves. Face-shield. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. Dust cloud production: dust-tight suit. See "Material-Handling" to select protective clothing.

Emergency procedures: Mark the danger area. Prevent dust cloud formation, e.g. by wetting. No naked flames. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.

Measures in case of dust release: In case of dust production, keep upwind. Have neighborhood close doors and windows.

For emergency personnel

Protective equipment: Equip cleanup crew with proper protection. Do not breathe dust.

Emergency procedures: Ventilate area. Stop release.

Environmental precautions: Stop release. Ventilate area.

Methods and material for containment and cleaning up

For containment: Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapor with water curtain. Knock down/dilute dust cloud with water spray.

Methods for cleaning up: Prevent dust cloud formation. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Spill must not return in its original container. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Section 7. Handling and Storage

Precautions: Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid raising dust. Keep away from naked flames/heat. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

Storage: Store in a dry area. Meet the legal requirements.

KEEP SUBSTANCE AWAY FROM: heat sources, oxidizing agents. strong acids. (strong) bases. halogens. water/moisture.



Section 8. Exposure Controls / Personal Protection

Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal Protection: Splash goggles. Synthetic apron. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent.

Personal Protection in Case of spill: Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult specialist BEFORE handling this product.

Exposure Limits: Not available

Section 9. Physical and Chemical Properties

Physical state and Appearance: Solid.

Molecular Weight: 97.09 g/mol

pH (1% soln/water): 1 [Acidic.]

Boiling Point: Not Available

Melting Point: Decomposes. (205°C/401°F)

Critical Temperature: Not available.

Specific Gravity: 2.15 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available

Odor Threshold: Not available

Water/Oil Dist. Coefficient: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Odor: Not available

Taste: Not available.

Color: Not available

Solubility: Soluble in cold water.

Section 10. Stability and Reactivity

Stability: The product is stable

Instability Temperature: Not available

Conditions of Instability: Not available

Incompatibility with various substances: Not available

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available

Special Remarks on Corrosivity: Not available

Polymerization: Not occur



Section 11. Toxicological Information

Routes of Entry: Eye contact. Inhalation. Ingestion. Dermal contact.

Toxicity to Animals: Acute oral toxicity (LD50): 3160 mg/kg [Rat].

Chronic Effects on Humans: The substance is toxic to lungs, mucous membranes.

Other Toxic Effects on Humans: Extremely hazardous in case of skin contact (corrosive irritant), of ingestion, of inhalation. Very hazardous in case of skin contact (sensitizer). Hazardous in case of skin contact (permeate)

Special Remarks on Toxicity to Animals: Not available

Special Remarks on Chronic Effects on Humans: Not available

Special Remarks on other Toxic Effects on Humans: No available

Section 12. Ecological Information

Ecotoxicity: Hazardous to the aquatic environment - Acute Hazard Category 2

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are as toxic as the original product.

Special Remarks on the Products of Biodegradation: Not available.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

In accordance with DOT Transport document description: UN2967 Sulfamic acid, 8, III
UN-No. (DOT): UN2967

Proper Shipping Name (DOT): Sulfamic acid

Transport hazard class(es) (DOT): Class 8 - Corrosive material 49 CFR 173.136

Hazard labels (DOT): 8 - Corrosive

Packing group (DOT): III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx): 213

DOT Packaging Bulk (49 CFR 173.xxx): 240

DOT Special Provisions (49 CFR 172.102): IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids



and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx): 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 25 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 100 kg

DOT Vessel Storage Location: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Section 15. Regulatory Information

Federal and State Regulations

TSCA 8(b) inventory: Sulfamic Acid

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classification

WHMIS (Canada): Class E: Corrosive solid.

DSCL (EEC): R35 - Causes severe burns. R43- May cause sensitization by skin contact

HMIS Rating

Health: 3

Flammability: 0

Reactivity: 1

Personal Protection: J

NFPA Rating

Health: 3

Flammability: 0

Reactivity: 1

Aquatic Acute 2: Hazardous to the aquatic environment - Acute Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation Category 1

Skin Corr. 1C: Skin corrosion/irritation Category 1C

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

H401 Toxic to aquatic life



Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

REVISION DATE: 1/17/2017

