#### Sulfamic Acid



## Section 1 Product Description

Product Name: Sulfamic Acid

**Recommended Use:** Science education applications

Synonyms: Amidosulfonic Acid; Amidosulfuric Acid; Aminosulfonic Acid; Sulfamidic Acid

Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

#### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER** 





Causes skin irritation. Causes serious eye damage. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

#### **GHS Classification:**

Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Hazardous to the aquatic environment - Acute Category 3, Hazardous to the aquatic environment - Chronic Category 3

## Section 3 Composition / Information on Ingredients

 Chemical Name
 CAS #
 %

 Sulfamic Acid
 5329-14-6
 100

## Section 4 First Aid Measures

**Emergency and First Aid Procedures** 

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

**Extinguishing Media:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this

material.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: Avoid Dusting. May become explosive when dispersed in air. Fire or excessive heat may

produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Nitrogen oxides, Sulfur Oxides

## Section 6 Spill or Leak Procedures

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Steps to Take in Case Material Is Released or Spilled:

Ventilate the contaminated area.

Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.

Wear a self-contained breathing apparatus and appropriate Personal protection. (See

Section 8.)

Very fine particles can cause a fire or explosion, eliminate all ignition sources

Prevent the spread of any spill to minimize harm to human health and the environment if safe

to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not allow the spilled product to enter public drainage system or open waterways. Gather

and store in a sealed container pending a waste disposal evaluation.

**Section 7** 

## **Handling and Storage**

Handling: Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective

clothing/eye protection/face protection. Avoid contact with skin and eyes.

**Storage:** Store in a secure area suitable for corrosives.

**Storage Code:** White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

#### Section 8 Protection Information

ACGIH OSHA PEL

Chemical Name(TWA)(STEL)(TWA)(STEL)No data availableN/AN/AN/AN/A

**Control Parameters** 

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation

might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eye wash, safety shower. No respiratory protection required under normal conditions of use. Provide general room

exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required. Wear a NIOSH approved respirator if any exposure

is possible.

Respirator Type(s): NIOSH approved air purifying respirator with dust/mist filter.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station

available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective

equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating.

drinking, and when leaving work.

Gloves: Nitrile

#### Section 9

#### **Physical Data**

Formula: H2NSO3H

Molecular Weight: 97.09 g/mol

Appearance: Powder Odor: No data available

Odor Threshold: No data available

**pH:** 1.18 (1% solution @ 25C **Melting Point:** 205 C

Boiling Point: No data available
Flash Point: No data available
Flammable Limits in Air: N/A N/A

Vapor Pressure: 0.0078 hPa at 20 °C Evaporation Rate (BuAc=1): N/A

Vapor Density (Air=1): 3.3 Specific Gravity: 2.1 Solubility in Water: Soluble

Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: N/A

#### **Section 10**

## **Reactivity Data**

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizing agents, Caustics (bases)

Hazardous Decomposition Products: Sulfur Oxides, Nitrogen oxides, Carbon dioxide, Carbon monoxide

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Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

**Routes of Entry** Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): None Known
Delayed Effects: No data available

**Acute Toxicity:** 

Chemical NameCAS NumberOral LD50Dermal LD50Inhalation LC50Sulfamic Acid5329-14-6Oral LD50 RatNot determinedNot determined

3160 mg/kg Oral LD50

**GUINEA PIG 1050** 

mg/kg

Oral LD50 Mouse 1312 mg/kg

Carcinogenicity:

Chemical NameCAS NumberIARCNTPOSHANo data available5329-14-6Not listedNot listedNot listed

**Chronic Effects:** 

**Mutagenicity:** No evidence of a mutagenic effect.

**Teratogenicity:** No evidence of a teratogenic effect (birth defect).

**Sensitization:** No evidence of a sensitization effect.

**Reproductive:** No evidence of negative reproductive effects.

**Target Organ Effects:** 

Acute: See Section 2

**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

**Overview:** Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife. Harmful to fish and other water organisms.

Mobility:No dataPersistence:No dataBioaccumulation:No dataDegradability:No dataOther Adverse Effects:No data

Chemical Name CAS Number Eco Toxicity

Sulfamic Acid 5329-14-6 96 HR LC50 PIMEPHALES PROMELAS 14.2 MG/L [STATIC]

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Spent or discarded material may be a hazardous waste.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN2967 SULFAMIC ACID, Class 8, P.G. III UN number: 2967 Class: 8 Packing group: III Proper shipping

name: Sulphamic acid

Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

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Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	5329-14-6	No	No	No	No	No

# Section 16 Additional Information

Revised: 09/09/2015 Replaces: 09/03/2014 Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

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ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

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