

Issuing Date 2/25/2010

Revision Date 1/21/2013

Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SULFAMIC ACID POWDER

Product Code(s) 6286

Recommended Use Laboratory chemicals. Industrial (not for food or food contact use).

Company LaMotte Company, Inc.
802 Washington Avenue
P.O. Box 329
Chestertown, MD 21620
USA

Emergency Telephone Number 24 Hour Emergency Number (CHEM-TEL):
USA, Canada, Puerto Rico 1-800-255-3924
Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

DANGER!**Emergency Overview**

Corrosive

Can cause severe irritation or burns to every area of contact

Harmful or fatal if swallowed

May cause lung damage

Appearance White**Physical State** Crystalline**Odor** Odorless**Potential Health Effects****Principle Routes of Exposure**

Skin contact, Eye contact, Ingestion, and, Inhalation.

Acute Toxicity**Eyes**

Causes burns. May cause irreversible damage to eyes.

Skin

Contact causes severe skin irritation and possible burns.

Inhalation

Inhalation of corrosive dusts can be extremely destructive to tissues of the mucous membranes and upper respiratory tract. Can cause burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. May cause pulmonary edema, a medical emergency.

Ingestion

Ingestion causes burns of the upper digestive and respiratory tract. May be fatal if swallowed.

Chronic Effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula H₂NSO₃H

Chemical Name	CAS-No	Weight %
Sulfamic acid	5329-14-6	100

4. FIRST AID MEASURES

General Advice Do not get in eyes, on skin, or on clothing.

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
Skin Contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Consult a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.
Ingestion	DO NOT INDUCE VOMITING. Drink plenty of water. Clean mouth with water. Never give anything by mouth to an unconscious person. Immediate medical attention is required.
Protection of First-aiders	Use personal protective equipment. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, dry chemical, carbon dioxide (CO ₂), or foam.			
Explosion Data				
NFPA	Health Hazard 3	Flammability 0	Stability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 0	Flammability 0	Stability 0	

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Refer to Section 8. Use personal protective equipment. Avoid contact with skin, eyes, and inhalation of vapors.
Methods for Cleaning Up	Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Keep in suitable and closed containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Prevent contact with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this product.
Storage	Keep containers tightly closed in a dry, cool, and well-ventilated place. Keep away from heat, moisture, and incompatibles. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sulfamic acid 5329-14-6	None Known	None Known	None Known

Personal Protective Equipment

Eye/Face Protection	Safety glasses with side-shields.
Skin and Body Protection	Wear protective gloves/clothing.
Respiratory Protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White	Odor	Odorless
Physical State	Crystalline	pH	1.2 (1% solution)
Boiling Point/Range		Decomposes	

Water Solubility Soluble in water

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use and storage.
Incompatible Products	Strong oxidizing agents. Nitric acid. Chlorine. Solutions are strongly acidic and react violently with bases.
Conditions to Avoid	Excessive heat. Incompatible products.
Hazardous Decomposition Products	Sulfur oxides (SO _x). Ammonia. Nitrogen oxides (NO _x). Carbon oxides (CO _x).
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfamic acid	1450 mg/kg (Rat)	None Known	None Known

Chronic Toxicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulfamic acid	None Known	None Known	None Known	None Known

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information
Sulfamic acid	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sulfamic acid	None Known	LC50= 70.3 mg/L Pimephales promelas 96 h	None Known	None Known

Chemical Name	Log Pow
Sulfamic acid	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of in accordance with local regulations.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sulfamic acid - 5329-14-6	None Known	None Known	None Known	None Known

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name SULFAMIC ACID
Hazard Class 8
UN-No 2967
Packing Group III
Reportable Quantity (RQ) 12KG

IATA

UN-No 2967
Proper Shipping Name SULFAMIC ACID
Hazard Class 8
Packing Group III

IMDG/IMO

Proper Shipping Name SULFAMIC ACID
Hazard Class 8
UN-No 2967
Packing Group III

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sulfamic acid 5329-14-6 (100)	Present	X	X	1-402	X	KE-32336	X	X

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Sulfamic acid	5329-14-6	100	None Known

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sulfamic acid 5329-14-6 (100)	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sulfamic acid	5329-14-6	100	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Sulfamic acid	None Known	None Known

U.S. State Regulations

Chemical Name	CAS-No	California Prop. 65
Sulfamic acid	5329-14-6	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sulfamic acid	None Known	X	None Known	None Known	None Known

International Regulations

Mexico - Grade No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Sulfamic acid	None Known	None Known

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

Component	WHMIS Hazard Class
Sulfamic acid 5329-14-6 (100)	1 % E



16. OTHER INFORMATION

NFPA	HMIS	PPE	Transport Symbol						
	<table border="1" style="width: 100%;"> <tr> <td style="background-color: #0000FF; color: white;">Health Hazard</td> <td style="text-align: center; font-weight: bold;">3</td> </tr> <tr> <td style="background-color: #FF0000; color: white;">Fire Hazard</td> <td style="text-align: center; font-weight: bold;">0</td> </tr> <tr> <td style="background-color: #FFFF00; color: black;">Reactivity</td> <td style="text-align: center; font-weight: bold;">2</td> </tr> </table>	Health Hazard	3	Fire Hazard	0	Reactivity	2		
Health Hazard	3								
Fire Hazard	0								
Reactivity	2								

Prepared By Regulatory Affairs Department
 Issuing Date 2/25/2010
 Revision Date 21-Jan-2013
 Revision Note Canada regulation request - Canada requires a 3 yr MSDS review.
 Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS