

SULPHAMIC ACID

SECTION 1. IDENTIFICATION

Product Identifier SULPHAMIC ACID
Product Family Alkalinity Control

Recommended Use Cement and Stimulation Additive.

Supplier Identifier Integrity Chemical Solutions Inc. 205 Crystal Shores Drive, Okotoks, Alberta T1S 2L1

403.988.7695

Emergency Phone No. FOR EMERGENGIES INVOLVING DANGEROUS GOODS

Call CANUTEC'S 24-Hour Number:

1-888-CANUTEC (226-8832) (North American use) and/or 1-613-996-6666 (International use)

SECTION 2. HAZARD IDENTIFICATION

Classification

Acute toxicity (Oral) - Category 1; Acute toxicity (Inhalation) - Category 3; Skin corrosion - Category 1A; Eye irritation - Category 2A; Specific target organ toxicity (repeated exposure) - Category 1

Label Elements







Signal Word:

DANGER!

Fatal if swallowed.

Causes severe skin burns and eye damage.

Toxic if inhaled.

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

Do not breathe dusts or mists.

Wash hands and skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Continue rinsing.

Get medical advice or attention if you feel unwell.

Wash contaminated clothing before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
SULFAMIC ACID	5329-14-6	100	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove to fresh air as soon as possible. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen and get medical attention.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse skin with lukewarm, gently flowing water for at least 30 minutes. If skin irritation or a rash occurs, get medical advice or attention.

Eye Contact

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Obtain immediate medical attention.

Ingestion

DO NOT INDUCE VOMITING. Give large amount of water to drink if patient is fully conscious. Never give anything by mouth to an unconscious or convulsing victim. Immediately call a Poison Centre or doctor.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Dry chemical, carbon dioxide, chemical foam, water.

Specific Hazards Arising from the Product

Does not burn.

May release sulphur dioxide, sulphur trioxide, nitrogen oxides and ammonia gas when heated in a fire.

Special Protective Equipment and Precautions for Fire-fighters

Wear chemical protective clothing (e.g. chemical splash suit) and NIOSH-approved positive pressure SCBA when handling this product.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Avoid generating dust. Sweep or scoop up material and reuse if possible. Collect contaminated material in an approved container for disposal. Collect wash water in an approved container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Prevent dust accumulation on ALL surfaces including ceiling rafters and other hidden surfaces. Avoid ingestion. Avoid skin and eye contact. Practice reasonable caution and personal cleanliness. Only use where there is adequate ventilation. Launder clothing that has become dusty.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated place. Empty ontainers contain residual hazardous materials and must be handled

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value.

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits.

Appropriate Engineering Controls

Provide mechanical ventilation to prevent dust concentrations and to reduce potential exposure. Supply sufficient replacement air to make up for air removed by exhaust systems. Emergency eyewash and safety shower should be in close proximity.

Individual Protection Measures

Eye/Face Protection

Do not get in eyes. Wear chemical safety goggles, full-face shield or a full-face respirator at all times when product is handled. Contact lenses should not be worn when handling this product; they may contribute to severe eye injury.

Skin Protection

Impervious gloves of chemically-resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing with soap and water, dry thoroughly before re-use. Ensure emergency shower and eyewash available.

Respiratory Protection

A half-face dust/mist respirator should be worn where dust or mist is present. Wear a full-face positive-pressure, air-supplied respirator in emergency situations or where exposure levels are unknown.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance White crystals. Particle Size: Not available

Odour Odourless

pH 1.18 (1% solution)

Melting Point/Freezing Point 205 °C (melting); Not available (freezing)

Initial Boiling Point/RangeNot availableFlash PointNot availableEvaporation RateNot available

Upper/Lower Flammability or

Explosive Limit

Not available (upper); Not available (lower)

Vapour Density (air = 1) 3.3 Relative Density (water = 1) 2.13

Solubility Soluble (more than 10-50 g/100 mL) in water; Not available (in other liquids)

Auto-ignition Temperature Not available

Decomposition Temperature Not available

Other Information

Physical State Solid
Molecular Formula NH2SO3H
Molecular Weight 97.09

Bulk Density 1250 - 1290 kg/m3 **Critical Temperature** Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

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Incompatible Materials

Strong oxidizing agents, chlorine and nitric acid. Aqueous solutions are strong acids which react with bases. Will hydrolyze at room temperature to form sulfate snd bisulfate.

Hazardous Decomposition Products

Decomposition products include sulfur dioxide, sulfur trioxide, nitrogen oxides and ammonia gas.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral Rat LD50: 3160 mg/kg Skin Corrosion/Irritation

May cause redness and severe burns.

Serious Eye Damage/Irritation

Human experience shows serious eve irritation.

May cause redness, pain, tissue burns and impaired vision.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Irritating to the upper respiratory tract and mucous membranes. May cause pulmonary edema. Severe overexposure may cause lung damage, choking, unconsciousness or death.

Ingestion

Will cause diarrhea, abdominal cramps, mouth and tongue pain, sore throat, nausea, stomach ache. VERY TOXIC. Can cause death.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Prolonged or repeated exposure to this product can produce target organ damage, exposure of the eyes to a low level dust can produce eye irritation and repeated skin exposure can produce local skin destruction or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation, lung damage and chronic respiratory irritation.

Respiratory and/or Skin Sensitization

Repeated inhalation of dust can produce varying degree of respiratory irritation, lung damage and chronic respiratory irritation.

Carcinogenicity

Not listed as carcinogenic (IARC and ACGIH).

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Germ Cell Mutagenicity

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Studies were not located.

Persistence and Degradability

Hazardous short-term degradation products are not likely. Long-term drgradation products may arise.

Other Adverse Effects

Environmental effects are not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

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Dispose of according to Federal, Provincial or Municipal guidelines or laws, including the Canadian Environmental Protection Act.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	2967	Sulfamic Acid (SULFAMIC ACID)	8	III

Special Precautions

Please note: Secure containers (full and/or empty) with suitable hold down devises during

shipping.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations Canada

WHMIS 1988 Classification



E - Corrosive

SECTION 16. OTHER INFORMATION

SDS Prepared By Integrity Chemical Solutions Inc.

Phone No. 403.988.7695 **Date of Preparation** November 2, 2022

Disclaimer This Health and Safety information is correct to the best of our knowledge and belief at the

date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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