

SULPHAMIC ACID

SECTION 1. IDENTIFICATION

Product Identifier	SULPHAMIC ACID
Product Family	Alkalinity Control
Recommended Use	Drilling Fluid Additive.
Supplier	Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com
Emergency Phone No.	ChemTrec, (800) 424-9300, 24/7

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

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

GHS 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.

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/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.

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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

Suitable Extinguishing Media

Dry chemical, carbon dioxide, chemical foam, water.

Specific Hazards Arising from the Chemical

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 containers contain residual hazardous materials and must be handled with the same care and attention as if full.

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/Range	Not available
Flash Point	Not available
Evaporation Rate	Not 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	NH ₂ SO ₃ H
Molecular Weight	97.09
Bulk Density	1250 - 1290 kg/m ³
Critical Temperature	Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

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 and 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 eye 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

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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

Toxicity

Studies were not located.

Persistence and Degradability

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

Other Adverse Effects

Environmental effects are not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

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 for User Please note: Secure containers (full and/or empty) with suitable hold down devices 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 Classification

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Class E

E - Corrosive

SECTION 16. OTHER INFORMATION

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

Date of Preparation March 04, 2016

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