



Prairie Mud Service Ltd.

"Serving Western Canada with 24 Hour Drilling Mud Service"

MSDS (Material Safety Data Sheet)

Sulphamic Acid

Section 01 - Chemical And Product And Company Information

Product Identifier Sulphamic Acid

Product Use Specialty chemicals, water treatment, descaling, metal pickling, galvanising, use in sulphating and sulphonating reactions, manufacture of artificial sweeteners.

Supplier Name Prairie Mud Service
738 6th Street
Estevan, SK S4A 1A4
Phone: 306-634-3411

Preparation Date November 27, 2009



Section 02 - Composition / Information on Ingredients

Hazardous Ingredients	Sulphamic Acid	99-100%
CAS Number	Sulphamic Acid	5329-14-6
Synonym (s)	Amidosulphuric acid, aminosulphonic acid	

Section 03 - Hazard Identification

Inhalation Irritating to the upper respiratory tract and mucous membranes. May cause pulmonary edema.

Skin Contact / Absorption..... May cause redness, blistering and severe burns.

Eye Contact Causes redness, pain, tissue burns and impaired vision.

Ingestion Corrosive product, will cause diarrhea, abdominal cramps, mouth and tongue pain, sore throat, nausea, stomach ache. May lead to death if ingested.

Exposure Limits..... ACGIH/TLV= 1mg/m³
OSHA/PEL= 1 mg/m³



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Section 04 - First Aid Measures

Inhalation Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact / Absorption: Remove contaminated clothing. Wash affected area with plenty of water.

Seek medical attention if irritation occurs or persists.

Eye Contact Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.

Ingestion Do not induce vomiting if swallowed. Give large quantities of water if conscious. Seek medical attention immediately.

Additional Information Not available

Section 05 - Fire Fighting

Conditions of Flammability Not flammable

Means of Extinction Use appropriate media for surrounding fire (water, chemical foam, dry chemical, or carbon dioxide).

Flash Point Not applicable

Auto-ignition Temperature Not applicable

Upper Flammable Limit Not applicable

Lower Flammable Limit Not applicable

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

Special Fire Fighting Procedures Wear NIOSH-approved self-contained breathing apparatus and protective clothing. Use water spray to cool structures and containers exposed to fire.

Explosion Hazards..... Not available



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Section 06 - Accidental Release Measures

Leak / Spill Wear appropriate personal protective equipment. Ventilate area of spill, sweep up any spills and dispose of in appropriate container. If necessary, neutralize residue with a dilute solution of sodium carbonate. Flush with water to remove any residue.

Deactivating Materials..... Dilute solution of sodium carbonate.

Section 07 - Handling and Storage

Handling Procedures Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Storage Requirements Keep in tightly closed containers. Store in a cool, dry, ventilated area away from heat, moisture and incompatibles.

Section 08 - Personal Protection and Exposure Controls

Protective Equipment

Eyes Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory 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.

Gloves Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.

Clothing Body suits, aprons, and/or coveralls of chemical resistant material should be worn as needed to prevent contact with skin. Wash contaminated clothing and dry thoroughly before reuse.

Footwear Impervious boots of chemically resistant material should be worn as needed.

Ventilation Requirements..... Mechanical ventilation (general or local exhaust) is recommended to keep exposures as low as possible. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other Emergency shower and eyewash should be in close proximity.



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Section 09 - Physical and Chemical Properties

Physical State Solid

Odor and Appearance..... White odourless crystalline solid

Odor Threshold Not applicable

Specific Gravity (Water=1)..... 2.13

Vapor Pressure (mm Hg, 20C)..... Not available

Vapor Density (Air=1)..... 3.3

Evaporation Rate Not available

Boiling Point..... Not applicable

Freeze/Melting Point..... Decomposes at 205°C

pH 1.18 (1% solution) **Water/Oil Distribution**

Coefficient Not available

Bulk Density 1.04g/cm³

% Volatiles by Volume 0

Solubility in Water 17.57% at 20°C **Molecular**

Formula..... NH₂SO₃H

Molecular Weight 97.09

Section 10 - Stability and Reactivity

Stability Stable under normal conditions.

Incompatibility..... Strong oxidizing agents, chlorine and nitric acid. aqueous solutions are strong acids which reacts with bases. Will hydrolyze at room temperature to form sulphate and bisulphate.

Hazardous Products of Decomposition ... Decomposition products include sulphur dioxide, sulphur trioxide, nitrogen oxides, and ammonia gas.

Polymerization Will not occur



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Section 11 - Toxicological Information

Irritancy Strong irritant **Sensitization** Not available

Chronic/Acute Effects..... Repeated or prolonged exposure to this product can produce target organs damage, exposure of the eyes to a low level of 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.

Synergistic Materials Not available

Animal Toxicity Data LD50(oral ,rat)= 3160mg/kg

Carcinogenicity Not listed as carcinogenic (IARC and ACGIH).

Reproductive Toxicity..... Not available

Teratogenicity Not available

Mutagenicity Not available

Section 12 - Ecological Information

Fish Toxicity Not available

Biodegradability Hazardous short term degradation products are not likely. However, long term degradation products may arise.

Environmental Effects..... Not available

Section 13 - Disposal Consideration

Waste Disposal Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 - Transportation Information

TDG Classification

Class..... 8

Group III



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PIN Number UN 2967

Other..... Secure containers (full and/or empty) with suitable hold down devices during shipment.

Section 15 - Regulatory Information
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WHMIS Classification E

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 - Other Information

The above information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, Prairie Mud Service cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.