



SAFETY DATA SHEET

Sulphamic Acid

Section 01 - Chemical And Product And Company Information

Product Identifier.....Sulphamic Acid

Product UseSpecialty chemicals, water treatment, descaling, metal pickling, galvanising, use in ulphating and sulphonating reactions, manufacture of artificial sweeteners.

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

Preparation Date February 16, 2017

24-Hour Emergency Phone 306-634-3411

Section 02 – Hazard Identification

Classification: **WHMIS Classification E**



Skin Eye Corrosion/Irritation

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

Skin Contact / Absorption May cause redness 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= 1mg/m³



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Section 03 – Composition/Information on Ingredients

Hazardous Ingredients..... Sulphamic Acid 99-100%

CAS Number..... Sulphamic Acid 5329-14-6

Synonym (s)..... Amidosulphuric acid, aminosulphonic acid

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 ExtinctionUse appropriate media for surrounding fire (water, chemical foam, dry chemical, or carbon dioxide).

Flash Point.....Not applicable

Auto-ignition Temperature.....Not applicable

Upper Flammable LimitNot applicable
Product #S670

Lower Flammable LimitNot applicable

Hazardous Combustible ProductsMay 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



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. Flush with water to remove any residue.

Deactivating Materials.....Not available

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

EyesChemical 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 with soap and water, 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 with soap and water, dry thoroughly before reuse.

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

Engineering Controls

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.

Section 09 - Physical and Chemical Properties

Physical State Solid

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

Odor Threshold Not applicable



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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/cm ³
% Volatiles by Volume	0
Solubility in Water	17.57% at 20°C
Molecular Formula	NH ₂ SO ₃ H
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

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.



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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

PIN Number UN 2967

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

Section 15 - Regulatory Information

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



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Section 16 - Other Information

Revised Date: May 2, 2019 Prepared by: Prairie Mud Service

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.