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THE BTTCO OVERSEAS

A Govt. of India Recognized *Star Export House*

from local roots to global routes

Material Safety Data Sheet
SULFAMIC ACID

Section 1 - Chemical Product and Company Identification

MSDS Name : SULFAMIC ACID
Chemical Name : Amido sulfonic Acid
Synonyms : Sulphamic Acid, Amidosulfuric Acid, Amino sulfonic Acid, Sulfamidic Acid
Chemical Formula : NH2SO3H
Molecular Weight : 97.09 g/mol
CAS No : 5329-14-6
UN No : UN 2967

Company Identification : The BTTCO Overseas
6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall, Navrangpura, Ahmedabad – 380009

Telephone Number : +91-94265 96891
Contact Person : Mr. Dinesh Lunkad

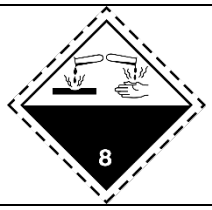
Section 2 Composition, Information on Ingredients

Chemical Name/ Ingredient	Formula	EC No	Molar Mass	CAS #	Percent
Sulfamic Acid	NH2SO3H	226-218-8	97.09 g/mol	5329-14-6	98% Min

Section 3 Hazards Identification

EMERGENCY OVERVIEW : DANGER: CORROSIVE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES SEVER IRRITATION AND BURNS TO EVERY AREA OF CONTACT. MAY CAUSE LUNG DAMAGE.

Health Rating : 2-Moderate
Flammability Rating : O-None
Reactivity Rating : 2-Moderate
Contac Rating : 3- Sever (Corrosive)
Lab Protective Equip : Goggles; Labcoat; Proper Gloves
Storage Color Code : White (Corrosive)

	
GHS07 Health Hazard (Warning)	Class 8 (Corrosive substances)

POTENTIAL HEALTH EFFECTS

Eye : Corrosive, can cause blurred vision, redness, pain, and severe tissue burns and eye damage.

Skin : Corrosive, Symptoms or redness, pain, and severe burn can occure.

Ingestion : Corrosive. Swallowing can cause severe burns of the mouth, throat, stomach, leading to death. Can cause sore throat, vomiting, diarrhea.

Inhalation : Extremely destructive to tissue of the mucous membranes and upper respiratory tract symptoms may include burning sensation, Coughing, Wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. May cause pulmonary edema, a medical emergency, Pulmonary, edama may be delayed upto 48 hours.

Section 4 First Aid Measures

Eye Contact : Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin Contact : Immediately flush eyes with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately

Inhalation : Remove to freash air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion : If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5 Fire Fighting Measures

Fire : Not considered to be a fire hazard.
Explosion : Not considered to be a explosion hazard.
Fire extinguishing media : Use any means suitable for extinguishing surrounding fire.
Special information : In the event of a fire, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from area of spill. Wear appropriate personal protective equipment as specified in section 8. Spill: pick up and suitable for reclamation or disposal, using a method that does not generate dust.

Section 7 - Handling and Storage

Pack the Product in tightly closed container/bag. Protect from physical damage. Store in cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Container of this material may be hazardous when empty since they retain product residues, observe all waning and precaution listed for the product.

Section 8 - Exposure Controls, Personal Protection

Air borne exposure limit : Not established.

Ventilation system : A system of local and/ or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is normally preferred because it can control the emission of the containant as its sources, preventing dispersion of it into the general work area. Please refer to the ACGIH document, INDUSTRIAL VENTILATION, a manual of recommended practices, most recent edition, for details.

Respiratory Protection : For condition of use where exposure to the dust or mist is apparent, a half face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full face positive-pressure air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Personal protective Equipment

Eye protection : Use chemical safety goggles and full face shield where dusting or splashing of solutions is possible. Maintain eye was fountain and quick-drench facilities in work area.

Skin protection : Wear impervious protective clothing, including boots, gloves, lab coat, apron or converalls as needed to prevent skin contact.

Exposure controls

Engineering measures : Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual/Personal protection Measures : Protective cloting needs to be selected specifically for the workplace, depending on concentration and quantities of the hazardous subtances handled. The chemical resistance of the equipment should be enquired at the respective supplier.

Hyglene measures : Immediately change contaminated clothing. Apply preventive skin protection. Wash hand and face after working with substance.

Eye/Face protection : Safety glasses

Hand protection : Full contact: Glove material: Nitrile rubber, Glove thickness: 0.11 mm, Break through time: > 480 min.

Splash contact : Glove material: Nitrile rubber, Glove thickness: 0.11 mm, Break through time: > 480 min.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Other protective Equipment	: Protective clothing
Respiratory protection	: Required when dust is generated. Recommended filter type: Filter B-(P2)
Environmental exposure Controls	: Do not empty into drains.

Section 9 - Physical and Chemical Properties

Appearance	: White to colorless powder.
Odor	: Odorless.
Solubility	: 213 at 200C
pH AS SUPPLIED	: 1.18 (1% solution @ 250°c (77°F))
% Volatiles by volume @ 21°c (70°F)	: 0
Boiling Point	: Decomposes.
Melting Point	: 205°c (401°F)
Vapor Pressure	: 0.0075 hPA
Relative Vapor Density	: 3.35
Relative Density	: 2.13 g/cm^3 20°C
Decomposition Temperature	: 209°C
Explosive Properties	: Non-Explosive
Oxidizing Properties	: Not Oxidizing
Bulk Density	: 1300 kg/m^3

Section 10 - Stability and Reactivity

Stability	: Stable under ordinary conditions of use and storage. Solutions are acidic. In water solution slowly
HAZARDOUS DECOMPOSITION	: Hydrolyzes to form ammonium sulfate and bisulfate.
Conditions to Avoid	: Dusting and incompatibles.
Products	: May emit ammonia, oxides of sulfur, oxide of nitrogen, and oxides of carbon.
HAZARDOUS POLYMERIZATION	: Will not occur.
Incompatibility with various substances	: Strong oxidizers, nitric acid, chlorine. Solutions are strong acids and react violently with bases.

Section 11 - Toxicological Information

LD50 oral rat : 3160 mg/kg

Skin Corrosion/Irritation

- **Human (Standard Draize Test)**: Mild skin irritation (Score: 40/0.5).
- **Rabbit (Standard Draize Test, 500 mg/24 h)**: Severe skin irritation.

Serious Eye Damage/Eye Irritation

- **Rabbit (Standard Draize Test, 2,580 µg/24 h)**: Severe eye irritation.

Respiratory or Skin Sensitization: No data available.

Germ Cell Mutagenicity: No data available.

Carcinogenicity

Ingredient	CAS No.	NTP (Known)	NTP (Anticipated)	IARC
Sulfamic Acid	5329-14-6	Not Listed	Not Listed	Not Classified

Reproductive Toxicity: No data available.
Specific Target Organ Toxicity (Single Exposure): May cause respiratory tract irritation.
Specific Target Organ Toxicity (Repeated Exposure): No data available.
Aspiration Hazard: Not expected to present an aspiration hazard.

Section 12 - Ecological Information

Toxicity

Toxicity to fish : LC50
Species : pimephalespromelas (fathead minnow)
Dose : 70,3 mg/lt
Exposure time : 96 hr.
Method : OECD test guideline 203
Persistence and Degradability : No information available
Bio accumulative potential : Partition coefficient: n-octanol/water, Log Pow: 0,10,
Method: (experimental) (Lit.)
Bioaccumulation is not expected (log Pow< 1)

Mobility in soil	: No information available
Results of PBT and vPvB assessment	: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
Other adverse effects	
Biological effects	: Harmful effect due to pH shift.
Further information on ecology	: Do not allow to run into surface waters, wastewater, or soil.

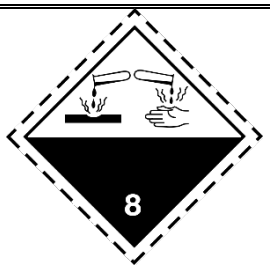
Section 13 - Disposal Considerations

Waste Disposal : Whatever cannot be said for recovery or recycled should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous wastes and require appropriate analysis to determine specific disposals requirements. Processing, use or contamination of this product may change the waste management options. State and local dispose of container unused contents in accordance with federal, state and local requirements.

Section 14 - Transport Information

DOT/IMDG/IMO/IATA

Proper Shipping Name	: Sulphamic Acid / Corrosive solid, N.O.S. (Sulphamic Acid)
UN No	: UN 2967
CAS No	: 5329-14-6
EMS No	: F-A, S-B
IMDG-Packaging Group	: III
Marine Pollutant	: Yes (Classified as Environmentally Hazardous)
Class	: Class 8 (Corrosive)
Packing Group	: III
Subsidiary Risks	: None
Special provisions	: None
Label Required	: Class 8 (Corrosive) Label AND Marine Pollutant Mark

	
Class 8 (Corrosive substances)	**GHS09** **Hazardous to the Environment**

Section 15 -Regulatory Information

Labelling:



Approved code of Practice
Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals. Control of Substances Hazardous to Health Regulations.

Section 16 - Other Information

NFPA Ratings : Health : 3
Flammability : 0
Reactivity : 0
4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight,
0 = Insignificant

Label Hazard Warning
DANGER CORROSIVE. MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. CAUSES SEVERE IRRITION AND BURNS TO EVERY AREA OF CONTACT. MAY CAUSE LUNG DAMAGE.

Label Precaution
Do not get in eyes or on skin or on clothing. Do not breathe dust. Keep container closed use only with Adequate ventilation was thoroughly handling.

Label First aid

If swallowed, DO NOT INDUCESVOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. In case of case contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contarninated clothing and shoes. Wash clothing before refuse. In all cases get medical attention immediately.

Disclaimer:

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