## **MATERIAL SAFETY DATA SHEET**



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MSDS No.: Effective Date: February 7, 2014

## **SECTION I NAME** 24 HOUR EMERGENCY ASSISTANCE Product Sulfamic Acid CHEMTREC 0 Health 3 Chemical 800-424-9300 Sulfamidic Acid: Aminosulfonic Acid 3 Synonyms Day 585-226-6177 Fire 0 Formula H,NO,S Reactivity 0 **NFPA** Up to 2.5 Kg HMIS **Unit Size** HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 5329-14-6 C.A.S. No. 0 2 3

SECTION II	INGREDIENTS OF MIXTUR	ES	
Principal Component(s)		%	TLV Units
Sulfamic acid		100%	None established.
DANGER! CORROSIVE!			
HARMFUL IF SWALLOWED	OR INHALED. CAUSES SEVERE IRRITA	TION OR B	URNS TO SKIN AND EYES.

SECTION III	PHYSICAL DATA		
Melting Point (°F)	401°F (205°C)	Specific Gravity (H <sub>2</sub> O = 1)	2.15 g/cc @ 4°C
Boiling Point (°F)	Decomposes @ 401°F (205°C) Percent Volatile by Volume (%) N/A		N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate ( =1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	6.5 parts water at 32°F; 2 parts water at 176°F		
Appearance & Odor	White orthorhombic crystals; no odor.		

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SECTIO	N IV	FIRE AND	<b>EXPLOSION HAZAR</b>	D DATA	
Flash Point			Flammable Limits in Air	Lower	Upper
(Method Used)	Non-flamm	able.	% by Volume N/A		
Extinguisher Media	Use carbor	n dioxide; dry chemical;	; water spray or fog.		

**SPECIAL FIREFIGHTING PROCEDURES** 

> In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GIUDE PAGE NO. 154)

**UNUSUAL FIRE AND EXPLOSION HAZARDS** 

> Emits toxic gases when heated. Do not release runoff from fire control methods to sewers or waterways.

D.O.T. Sulfamic acid. 8. UN2967, PG III, Ltd Qtv 5 Lt.

SECTION V		Н	HEALTH HAZARD DATA SS1078			
Threshold Limited Value			None established ACGIH 2001. Toxicity Data: Oral-rat: LD50: 3160 mg/kg; Skin-rabbit: 500 mg applied for 24 hour caused severe irritation. Estimated human lethal dose is 0.5 to 5 g/kg for a 150 lb person.			
vere irritation stomach per and wrinkle low respiration procedures	ation of high I on and burns to erforation. The d texture. Cit tion and scant to minimize p	Inhalation may cause severe irritation and burns of the nose and respiratory cause pulmonary edema which may be delayed up to 48 hours. Causes seand eyes. Scarring may be permanent. Ingestion may cause esophageal or not esophagus may appear grayish-white progressing to black with a shrunker ollapse occurs in extreme cases with clammy skin, weak and rapid pulse, shahich if uncorrected can lead to kidney failure and death. Exercise appropriate azards. Target organs: Respiratory and gastrointestinal tracts, eyes, skin, systems, liver, kidneys.				
Emergeno			INGESTION: Call physician or Poison Control Center immediately. Induce			
vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.						
SECTIO			REACTIVITY DATA			
Stability	Unstable		Conditions to Avoid Stable when dry but slowly hydrolyzes in			
	Stable	Х	solution to form ammonium bisulfate.			
	Incompatibility (Materials to Avoid)  Undergoes a violent and explosive reaction with chlorine, metal nitrates and heat, metal nitrites and heat and fuming nitric acid.					
Decompo	Hazardous Decomposition Products  Sulfur oxide(s), nitrogen oxide(s), ammonia gas.					
Hazardous	Polymeriza	ition	Conditions to Avoid			
May Occur Will Not Occur		lot Occur X	Not applicable.			
SECTIO	SECTION VII SPILL OR LEAK PROCEDURES					
Steps to be taken in case material is released or spilled  Recover for use if not contaminated. Avoid dispersion of dust into air. Carefully scoop up and place in a suitable container for disposal. Wash spill area with soap and water.						
Waste Dis	posal Met		Discharge, treatment, or disposal may be subject to Federal, State or Local laws.  These disposal guidelines are intended for the disposal of catalog-size quantities only.			
Dispose of in an approved chemical landfill or contract with a licensed chemical waste disposal agency.						
SECTION VIII   SPECIAL PROTECTION INFORMATION						
Ventilation	Local E	xhaust	Recommended. Special No.			
	Mechan	ical (Genera	For Ducks office			
Protective		F	Rubber. Eye Protection Chemical safety goggles.			
Equipment	Other Protective Equipment Smock, apron, ventilation hood, proper gloves, and eye wash station.					
SECTION IX SPECIAL PRECAUTIONS						
Precautions to be Taken in Handling & Storing  Keep container tightly closed when not in use.  Store in a cool, dry, well-ventilated area away from incompatible substances. Use only in a well-ventilated area. Wash thoroughly after handling.						
Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.						

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

and inhalation. Remove and wash contaminated clothing.

Approved

Revision No.

Date

2/7/14

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid ingestion

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Chemical Safety

Coordinator

JAB