

SAFETY DATA SHEET

Creation Date 26-Jan-2010

Revision Date 02-Feb-2015

Revision Number 1

1. Identification

Product Name

AC222070000; AC222070010; AC222070025; AC222070050; AC222070100; AC222071000; AC222072500

Synonyms

Cat No. :

Amidosulfonic acid

Sulfamic acid

Recommended Use Laboratory chemicals.

Uses advised against No Information available Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Entity / Business Name Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals	Category 1
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Label Elements

Signal Word Warning

Hazard Statements May be corrosive to metals Causes skin irritation Causes serious eye irritation



Precautionary Statements Prevention

Keep only in original container Wear eye/face protection Wear protective gloves Wash face, hands and any exposed skin thoroughly after handling **Skin** IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse **Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention **Storage** Store in corrosive resistant polypropylene container with a resistant inliner **Disposal**

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

3. Composition / information on ingredients

Component	CAS-No	Weight %
Sulfamic acid	5329-14-6	>95

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention.	
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention.	
Ingestion	Do not induce vomiting. Obtain medical attention.	
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically	

5. Fire-fighting measures		
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Unsuitable Extinguishing Media	No information available	
Flash Point Method -	No information available No information available	
Autoignition Temperature Explosion Limits	Not applicable	
Upper	No data available	
Lower	No data available	
Sensitivity to Mechanical Impac	t No information available	
Sensitivity to Static Discharge	No information available	

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products Sulfur oxides Nitrogen oxides (NOx) Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 2	Flammability 1	Instability 0	Physical hazards N/A		
	6. Accidental releas	se measures			
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.				
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information.				
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.					
	7. Handling and	storage			
Handling	Wear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.				
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area.				
8. Exposure controls / personal protection					
Exposure Guidelines	This product does not contain an established by the region specific		cupational exposure limits		
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.				
Personal Protective Equipment					
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.				
Skin and body protection	Wear appropriate protective glov	es and clothing to prevent skir	n exposure.		
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				

Physical and chemical propert

Z (1 1)	ystear and enernical properties
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	1.2 1% aq.sol
Melting Point/Range	200 - 208 °C / 392 - 406.4 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Relative Density	2.15
-	

Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Soluble in water No data available Not applicable 205 °C Not applicable H3 N O3 S 97.09

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat.	
Incompatible Materials	Strong oxidizing agents, Strong bases	
Hazardous Decomposition Product	us Decomposition Products Sulfur oxides, Nitrogen oxides (NOx)	
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Componer	ation	LD50 Oral LD50 Dermal LC50 Inhalation			Inhalation	
Sulfamic ac		3160 mg/kg (Rat) >2000 mg/kg (Rat) Not liste				
Foxicologically Syn		No information available				
Products	- g					
Delayed and immed	liate effects as	well as chronic effect	ts from short an	d long-term expo	sure	
-						
Irritation Irritating to eyes and skin						
Sensitization		No information available				
Carcinogenicity		The table below indi	icates whether ea	ich agency has lis	ted any ingredient	as a carcinoge
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sulfamic acid	5329-14-6	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects	00200	Not mutagenic in AN			. Tot noted	
		g				
Reproductive Effect	s	No information avail	able.			
•						
Developmental Effe	cts	No information avail	able.			
Feratogenicity		No information avail	No information available.			
STOT - single exposure None known						
3101 - Sillule expo		None known				
•	posule					
STOT - repeated ex						
STOT - repeated ex		No information avail	able			
•		No information avail	able			
STOT - repeated ex	s,both acute ar	No information avail				
STOT - repeated ex Aspiration hazard Symptoms / effects delayed	-	nd No information avail	able			
STOT - repeated ex Aspiration hazard Symptoms / effects	-		able			
STOT - repeated ex Aspiration hazard Symptoms / effects delayed	r Information	nd No information avail	able			

12. Ecological information

Ecotoxicity

This product contains the following substance(s) which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sulfamic acid	-	LC50: 70.3 mg/L/96h	-	-
		(Pimephales promelas)		
Persistence and Degradability No information available		on available		

Bioaccumulation/Accumulation

No information available No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Sulfamic acid	0.1

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	
UN-No	UN2967
Proper Shipping Name	Sulfamic acid
Hazard Class	8
Packing Group	III
TDG	
UN-No	UN2967
Proper Shipping Name	SULFAMIC ACID
Hazard Class	8
Packing Group	III
ΙΑΤΑ	
UN-No	UN2967
Proper Shipping Name	SULPHAMIC ACID
Hazard Class	8
Packing Group	III
IMDG/IMO	
UN-No	UN2967
Proper Shipping Name	SULPHAMIC ACID
Hazard Class	8
Packing Group	
	15. Regulatory information

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sulfamic acid	Х	Х	-	226-218-8	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazardous Categor Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure H Reactive Hazard	
Clean Water Act	Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

Yes No No No No

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sulfamic acid	-	Х	-	-	-

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

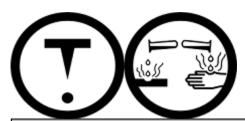
No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2B Toxic materials E Corrosive material



16. Other information

Prepared By

Creation Date Revision Date Print Date Revision Summary Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

26-Jan-2010 02-Feb-2015 02-Feb-2015 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Disclaimer

Harmonized System of Classification and Labeling of Chemicals (GHS)

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

