

Trade name: Acid aminosulfonicum

Substance number: 060072

Version: 4 / CH

Date revised: 28.10.2019

Replaces Version: 2 / CH

Print date: 28.10.19

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Acid aminosulfonicum

Item No. 06007200

Substance / product identification

CAS-No. 5329-14-6

EINECS-No. 226-218-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Decalcifier

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Hänseler AG

Industriestrasse 35

9100 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word ***

Warning

Hazard statements ***

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements ***

P264.1 Wash hands thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501.3 Disposal in compliance with local and national regulations.

SECTION 3: Composition/information on ingredients**Hazardous ingredients****Sulphamidic acid**

CAS No.	5329-14-6	
EINECS no.	226-218-8	
Registration no.	01-2119488633-28-XXXX	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Skin Irrit. 2	H315
	Eye Irrit. 2	H319
	Aquatic Chronic 3	H412

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated clothing immediately and dispose of safely. Take medical treatment. Remove affected person from danger area.

After inhalation

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Heat. In the event of symptoms take medical treatment. If necessary, give oxygen

After skin contact

Wash off immediately with soap and water and rinse well. Take medical treatment.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical advice immediately. Shield unaffected eye.

After ingestion

Do not induce vomiting. No trials on neutralisation. Let plenty of water be drunk in small gulps. Ensure supply of fresh air. Summon a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

Irritating to respiratory system. Irritation of mucosa

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

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5.2. Special hazards arising from the substance or mixtureNitrogen oxides (NO_x); Ammonia (NH₃); Sulphur oxides; Development of toxic gases**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing. Remove persons to safety.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal". Pick up rest with weakly alkaline solution.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Avoid dust formation.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Provide acid-resistant floor. Only use containers that are approved specifically for the substance/product. Do not use light metal drums.

Hints on storage assembly

Do not store with oxidizing agents.

Storage classes

Storage class according to TRGS 510	8B	Non-combustible corrosive hazardous substances
Storage category (Switzerland)	11/13	Other solid hazardous substances with hazardous classification/labelling

Further information on storage conditions

Keep container tightly closed. Protect from atmospheric moisture and water.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls****Exposure controls**

See Section 7. No measures exceeding the ones mentioned necessary.

General protective and hygiene measures

Take off immediately all contaminated clothing. Wash hands before breaks and after work. Avoid contact with skin and eyes. Do not inhale dust/fumes/mist. Hold eye wash fountain available. Use barrier skin

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cream.

Respiratory protection

Short term: filter apparatus, combination filter B-P2

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	Natural Latex		
Material thickness	0.5	mm	
Breakthrough time	> 8	h	
Appropriate Material	Polychloroprene		
Material thickness	0.5	mm	
Breakthrough time	> 8	h	
Appropriate Material	nitrile rubber - NBR		
Material thickness	0.35	mm	
Appropriate Material	Butyl rubber - Butyl		
Material thickness	0.5	mm	
Appropriate Material	Fluoro carbon rubber - FKM		
Material thickness	0.4	mm	
Appropriate Material	PVC		
Material thickness	0.5	mm	

Eye protection

Tightly fitting safety glasses

Body protection

Acid-resistant protective clothing

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties**

Form	Powder		
Colour	white		
Odour	odourless		
pH value			
Value	1.2		
Concentration/H ₂ O	10	g/l	
Temperature	25	°C	
Melting point			
Value	205		°C
Initial boiling point and boiling range ***			
Remarks	not determined		
Flash point			
Value		°C	
Remarks	Not applicable		
Flammability (solid, gas)			
Not ignitable			
Vapour pressure			
Remarks	Not applicable		
Density			
Value	2.15		g/cm ³
Temperature	20	°C	

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Solubility in water

Value	175	to	215	g/l
Remarks	soluble			

Partition coefficient: n-octanol/water

log Pow	0.1	to	1
Temperature	<		

Decomposition temperature

Value	209	°C
Remarks	No decomposition if used as prescribed.	
Remarks	To avoid thermal decomposition, do not overheat.	

9.2. Other information**Other information**

The product is not dangerous for explosions.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No decomposition if stored and applied as directed.

10.2. Chemical stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No decomposition if stored and applied as directed.

10.4. Conditions to avoid

Heat. Sparks. Flames

10.5. Incompatible materials

Reactions with strong acids and alkalis. Reactions with strong oxidising agents. Metals, chlorine liquide, Reaction with nitric acid. nitrates, Reactions with halogenated compounds.

10.6. Hazardous decomposition products

Nitrous gases, Ammonia, Sulphur dioxide

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****Sulphamidic acid**

Species	rat		
LD50	3160		mg/kg

Acute dermal toxicity (Components)**Sulphamidic acid**

Species	rat		
LD50	>	2000	
Method	OECD 402		

Skin corrosion/irritation

Species	rabbit
Remarks	Irritating effects on the skin and mucous membrane.

Serious eye damage/irritation

Species	rabbit
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evaluation	strongly irritant
Sensitization	
Remarks	No sensitisation effect known.
Mutagenicity	
Remarks	None
Reproductive toxicity	
Remarks	No data available.

SECTION 12: Ecological information ***

12.1. Toxicity

Fish toxicity (Components)

Sulphamidic acid

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	70.3		mg/l
Duration of exposure	96	h	

Daphnia toxicity (Components)

Sulphamidic acid

Species	Daphnia magna		
EC50	71.6		mg/l
Duration of exposure	24	h	
Method	OECD 202		

Algae toxicity (Components)

Sulphamidic acid

EC50	48		mg/l
Method	OECD 201		

Bacteria toxicity (Components)

Sulphamidic acid

Species	activated sludge		
	> 200		mg/l
Duration of exposure	3	h	
Method	OECD 209		

12.2. Persistence and degradability

Biodegradability

Remarks	Not applicable
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12.3. Bioaccumulative potential

General information

There is no data available on the product apart from the information given in this subsection.

Partition coefficient: n-octanol/water

log Pow	0.1	to	1
Temperature	<		

Octanol/water partition coefficient (log Pow) (Components)

Sulphamidic acid

log Pow	0.1
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12.5. Results of PBT and vPvB assessment

General information

Not applicable

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12.6. Other adverse effects

General information / ecology

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. The product causes changes in the pH value in the test system. The result relates to the unneutralized sample.

SECTION 13: Disposal considerations

13.1. Waste treatment methods




Disposal recommendations for the product

EWC waste code No not dispose with rubbish.
 Disposal in compliance with local and national regulations.
 EWC waste code Should not be released into the sanitary sewer system.
 In accordance with regulations for special waste, must be taken to an authorised special waste disposal site or incineration plant.

Disposal recommendations for packaging

Disposal in compliance with local and national regulations.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
Tunnel restriction code	E		
14.1. UN number	2967	2967	2967
14.2. UN proper shipping name	SULPHAMIC ACID	SULPHAMIC ACID	SULPHAMIC ACID
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	III	III	III
Limited Quantity	5 kg		
Transport category	3		

SECTION 15: Regulatory information ***

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Water Hazard Class (Germany) ***

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

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National regulations Switzerland

Swiss Toxicity Class	3
SFOPH T no.	G-1018

SECTION 16: Other information**Hazard statements listed in Chapter 3**

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.