

SAFETY DATA SHEET

according to 1907/2006/EC, Article 3

Revision date: 30/03/2019

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

1.1 Product identifiers

Product name Sulfamic acid
Product Number PSR39730

Brand PureSynth research chemicals

CAS No. 5329-14-6

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

Identified uses : Laboratory Chemicals.

1.3 Details of the supplier of the safety data sheet

Company PureSynth Research Chemicals GmbH.

64683 Einhausen Marie-Curie-StraBe. 3, Germany

1.4 Emergency telephone number

Worldwide Helpline No.: 1800-8908-260

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation, (Category 2) H315: Causes skin irritation.

Eye irritation, (Category 2) H319: Causes serious eye irritation

Long-term (chronic) aquatic hazard, H412: Harmful to aquatic life with long lasting effects.

(Category 3)

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P280 Keep container tightly closed.



P273 Avoid release to the environment

P302 + P352 IF ON SKIN: Wash with plenty of 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.

Supplemental Hazard

Statements

none

2.3 **Other hazards:** This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher

SECTION 3: Composition / information on ingredients

3.1 Substances

Common names & Mol. formula CAS number

Amidosulfonic acid H₃NO₃S 5329-14-6

Component Classification Concentration

Skin Irrit. 2; Eye Irrit. 2; <= 100 %

Sulphamic acid Aquatic Chronic 3; H315,

H319, H412

SECTION 4: First aid measures

Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in

attendance.

If inhaled After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated

clothing. Rinse skin with water/ shower. Call a physician immediately. After eye contact: rinse out with plenty of water. Immediately call in

In case of eye contact ophthalmologist. Remove contact lenses.

After swallowing: make victim drink water (two glasses at most), avoid

vomiting (risk of perforation). Call a physician

Most important symptoms and

effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical

attention and special treatment

needed

No data available

SECTION 5: Fire fighting measures

Use extinguishing measures that are appropriate to local

Extinguishing media circumstances and the surrounding environment.

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are

given.

Special hazards arising from the

substance or mixture

Nitrogen oxides (NOx)

Sulfur oxides

Not combustible.



Ambient fire may liberate hazardous vapours.

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing

suitable protective clothing.

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground

water system

SECTION 6: Accidental release measures

Advice for fire-fighters

Further information

Personal precautions, protective

equipment and emergency

procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8

Environmental precautions Do not let product enter drains.

Methods and materials for containment and cleaning up

possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected

Cover drains. Collect, bind, and pump off spills. Observe

area

Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

Precautions for safe handling For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous

materials

Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated

SECTION 8: Exposure controls / Personal protection

Control parameters Ingredients with workplace control parameters

Exposure controls Personal protective equipment

Appropriate engineering controls

Personal protective equipment:

Skin protection

Use equipment for eye protection tested and approved under Eye / face protection

appropriate government standards such as NIOSH (US) or EN 166(EU).

Tightly fitting safety goggles

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves

after use in accordance with applicable laws and good laboratory

practices. Wash and dry hands.



The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection protective clothing.

> Recommended Filter type: Filter A-(P3) The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices

are carried out according to the instructions of the producer. These

measures have to be properly documented.

Control of environmental

Respiratory protection

exposure

Do not let product enter drains. Risk of explosion.

SECTION 9: Physical and chemical properties

Form: crystalline **Appearance** Colour: white

odorless Odour

1.5 at 10 g/l at 20 °C pH - Value 2.151 g/cm3 at 25 °C Density No data available **Boiling Point**

215 - 225 °C **Melting Point**

181.4 g/l at 20 °C -Solubility in water No data available Flash point 0.008 hPa at 20 °C

Vapour pressure 0.025 hPa at 100 °C

> 400 °C - Relative self-ignition temperature for

solids

No data available Vapour density

The product is not flammable. - Flammability (solids) Flammability (solid, gas)

No data available **Evaporation rate** No data available Partition coefficient: n- octanol / water No data available Viscosity No data available **Explosive properties** No data available Upper / lower flammability or explosive limits

No data available **Oxidizing properties**

Other safety information: Dissociation constant -0.99 at 25 °C

SECTION 10: Stability and reactivity

Auto -ignition temperature



No data available LD50 Oral - Rat - female - 2.140 mg/kg Reactivity

InTheration ម្យាប្រស្នាំមានក្រុម ប្រវត្តិ នៃ under standard ambient conditions Acute toxicity Chemical stability

LD500 Det mape Returnale and female - > 2.000 mg/kg

SRISK REBURDOSION with:

Skin corrosion/irritation Resum:inevere skin irritation - 24 h

E√Exothermonia reaction with:

Serious eye damage/eye irritation RESUMBESSEVere irritations

Lক্তিরিম্বার্গাপ্রহিচ node assay (LLNA) - Mouse Result: negative Respiratory or skin sensitization

No data available Exercibidely rofulbage ndicitus reactions

nitrates

Test Type: Ames test nitrites

Test system: Escherichia coli/Salmonella typhimurium Nitric acid Metabolic activation: with and without metabolic activation Metals

Result: negative Water

Test Type: In vitro mammalian cell gene mutation test Strong bases
Test system: Chinese hamster ovary cells
No data available
Metabolic activation: with and without metabolic activation Condition to avoid

Incompatible materials Metals Result: negative

Carcinogenicity Hazardous decomposition products Tegt प्रिक्ट वर्ग प्रिक्ट विषय का स्वाप कर कि प्राप्त के प्राप्त

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Result: negative

Test Type: Mutagenicity (mammal cell test): micronucleus.

Test system: Human lymphocytes

Metabolic activation: with and without metabolic activation

Result: negative No data available No data available

Specific target organ toxicity - single

exposure

Specific target organ toxicity -

repeated exposure

Additional Information

Reproductive toxicity

No data available

No data available Aspiration hazard

> The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

Toxicity

static test LC50 - Pimephales promelas (fathead minnow) - 70.3 mg/l -Toxicity to fish

Toxicity to daphnia and other aquatic

invertebrates Toxicity to algae semi-static test EC50 - Daphnia magna (Water flea) - 71.6 mg/l - 48 h

static test ErC50 - Desmodesmus subspicatus (green algae) - 48 mg/l -

static test EC50 - activated sludge - > 200 mg/l - 3 h Toxicity to bacteria EC10 - Pseudomonas putida - >= 1.000 mg/l - 16 h

Not readily biodegradable. Persistence and degradability Not readily biodegradable. **Biodegradability**

No data available Bio accumulative potential No data available Mobility in soil



This substance/mixture contains no components considered to be Results of PBT and vPvB assessment either persistent, bio accumulative and toxic (PBT), or very persistent

and very bio accumulative (vPvB) at Levels of 0.1% or higher.

The substance/mixture does not contain components considered to

have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission

Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data available

Endocrine disrupting properties

SECTION 13: Disposal considerations

Waste treatment methods

Products

Other adverse effects

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste

material must be disposed of in accordance with the Directive on waste

2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleansed containers

like the product itself.

Dispose of as unused product. Contaminated packaging

SECTION 14: Transport information

	UN no.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR / RID	2967	SULPHAMIC ACID	8	III	No
IMDG	2967	SULPHAMIC ACID	8	III	No
IATA	2967	Sulphamic acid	8	III	No

SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The user must be determined suitability of this information for his application.