# Material Safety Data Sheet

**Version: 01**

**Revision Date : 29-5-2025**

| Section 1. Product Information and Company Identification | | | |
|---|---|---|---|
| **Product name** | Sulphamic Acid | | |
| **Mol. formula** | H3NO3S | **CAS No.** | 5329-14-6 |
| **Mol.wt** | 97,09 g/mol | | |
| **manufacturer name** | Pioneers for laboratory chemicals | | |
| **Brand name** | Piochem | | |
| **Address** | Area 540, Industrial Zone 6th October city Giza, Egypt. | | |
| **Website** | www.piochem.com | | |
| **E-mail** | info@piochem.com | | |
| **Phone number** | 0 12 05700001 | | |

## 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
Eye irritation (Category 2), H319
Chronic aquatic toxicity (Category 3), H412

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

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

| | | |
|---|---|---|
| | | R52/53 |
| Xi | Irritant | R36/38 |

For the full text of the R-phrases 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.

| | |
|---|---|
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Precautionary statement(s) | |
| P273 | Avoid release to the environment. |
| 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** - none

## SECTION 3: Composition/information on ingredients

**3.1 Substances**

| | | |
|---|---|---|
| Synonyms | : | Amidosulfonic acid |
| Formula | : | $H_3NO_3S$ |
| Molecular Weight | : | 97,09 g/mol |
| CAS-No. | : | 5329-14-6 |
| EC-No. | : | 226-218-8 |
| Index-No. | : | 016-026-00-0 |

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

| Component | | Classification | Concentration |
|---|---|---|---|
| **Sulphamidic acid** | | | |
| CAS-No. | 5329-14-6 | Skin Irrit. 2; Eye Irrit. 2; | <= 100 % |
| EC-No. | 226-218-8 | Aquatic Chronic 3; H315, | |
| Index-No. | 016-026-00-0 | H319, H412 | |

**Hazardous ingredients according to Directive 1999/45/EC**

| Component | | Classification | Concentration |
|---|---|---|---|
| **Sulphamidic acid** | | | |
| CAS-No. | 5329-14-6 | Xi, R36/38 - R52/53 | <= 100 % |
| EC-No. | 226-218-8 | | |
| Index-No. | 016-026-00-0 | | |

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

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

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**
Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 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

**4.3 Indication of any immediate medical attention and special treatment needed**
no data available

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**
nitrogen oxides (NOx), Sulphur oxides

**5.3 Advice for firefighters**
Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**
no data available

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
For personal protection see section 8.

**6.2 Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**
For disposal see section 13.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**7.3 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

**8.1 Control parameters**

**Components with workplace control parameters**

**8.2 Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

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.

**Body Protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

| | | |
|---|---|---|
| a) | Appearance | Form: solid<br>Colour: white |
| b) | Odour | no data available |
| c) | Odour Threshold | no data available |

| | | |
|---|---|---|
| d) | pH | 1,5 at 10 g/l at 20 °C |
| e) | Melting point/freezing point | Melting point/range: 215 - 225 °C - dec. |
| f) | Initial boiling point and boiling range | no data available |
| g) | Flash point | no data available |
| h) | Evapouration rate | no data available |
| i) | Flammability (solid, gas) | no data available |
| j) | Upper/lower flammability or explosive limits | no data available |
| k) | Vapour pressure | 0,008 hPa at 20 °C<br>0,025 hPa at 100 °C |
| l) | Vapour density | no data available |
| m) | Relative density | 2,151 g/cm3 at 25 °C |
| n) | Water solubility | 213 g/l at 20 °C470 g/l at 80 °C |
| o) | Partition coefficient: n-octanol/water | no data available |
| p) | Auto-ignition temperature | no data available |
| q) | Decomposition temperature | 209 °C - |
| r) | Viscosity | no data available |
| s) | Explosive properties | no data available |
| t) | Oxidizing properties | no data available |

**9.2 Other safety information**
no data available

## SECTION 10: Stability and reactivity

**10.1 Reactivity**
no data available

**10.2 Chemical stability**
Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**
no data available

**10.4 Conditions to avoid**
no data available

### 10.5 Incompatible materials
Strong oxidizing agents, Strong bases

### 10.6 Hazardous decomposition products
Other decomposition products - no data available
In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**
LD50 Oral - rat - 3.160 mg/kg
(OECD Test Guideline 401)

LD50 Oral - mouse - 1.312 mg/kg
Remarks: Behavioral:Excitement. Behavioral:Altered sleep time (including change in righting reflex).

LD50 Oral - guinea pig - 1.050 mg/kg
Remarks: Behavioral:Excitement. Behavioral:Altered sleep time (including change in righting reflex).

Inhalation: no data available

Dermal: no data available

**Skin corrosion/irritation**
Skin - rabbit
Result: Moderate skin irritation
(OECD Test Guideline 404)

Skin - Human
Result: Mild skin irritation

**Serious eye damage/eye irritation**
Eyes - rabbit
Result: Moderate eye irritation
(OECD Test Guideline 405)

**Respiratory or skin sensitisation**
no data available

**Germ cell mutagenicity**
no data available

**Carcinogenicity**

no data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**
no data available

**Specific target organ toxicity - single exposure**
no data available

**Specific target organ toxicity - repeated exposure**
no data available

**Aspiration hazard**
no data available

**Additional Information**
RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Symptoms and signs of poisoning are:, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Inhalation may provoke the following symptoms:, spasm, inflammation and edema of the bronchi, spasm, inflammation and edema of the larynx, Aspiration or inhalation may cause chemical pneumonitis.

## SECTION 12: Ecological information

### 12.1 Toxicity

| | |
|---|---|
| Toxicity to fish | static test LC50 - Pimephales promelas (fathead minnow) - 70,3 mg/l - 96 h (OECD Test Guideline 203) |
| Toxicity to daphnia and other aquatic invertebrates | Remarks: no data available |
| Toxicity to algae | Remarks: no data available |

### 12.2 Persistence and degradability
Biodegradability Result: - Not readily biodegradable.

### 12.3 Bioaccumulative potential
no data available

### 12.4 Mobility in soil
no data available

### 12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects
Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product**
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**
Dispose of as unused product.

## SECTION 14: Transport information

**14.1 UN number**

ADR/RID: 2967 IMDG: 2967 IATA: 2967

**14.2 UN proper shipping name**

ADR/RID: SULPHAMIC ACID
IMDG: SULPHAMIC ACID
IATA: Sulphamic acid

**14.3 Transport hazard class(es)**

ADR/RID: 8 IMDG: 8 IATA: 8

**14.4 Packaging group**

ADR/RID: III IMDG: III IATA: III

**14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**14.6 Special precautions for user**

no data available

## SECTION 15: Regulatory information

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

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

no data available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

## SECTION 16: Other information

**Full text of H-Statements referred to under sections 2 and 3.**

| | |
|---|---|
| Aquatic Chronic | Chronic aquatic toxicity |
| Eye Irrit. | Eye irritation |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Skin Irrit. | Skin irritation |

**Full text of R-phrases referred to under sections 2 and 3**

| | |
|---|---|
| Xi | Irritant |
| R36/38 | Irritating to eyes and skin. |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |