

## 1. Identification of the substance/preparation and of the company/undertaking

### *Identification of the product*

Sulfamic acid

### *Manufacturer/supplier identification*

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## 2. Hazards identification

### **Classification of the substance or mixture**

#### **Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Inhalation (Category 5)

Skin corrosion (Category 1B)

Serious eye damage (Category 1)

### **Label elements**

Pictogram



Signal word Danger

### **Hazard statement(s)**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statement(s)**

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / goggles / wear a mask.

### **Supplemental Hazard Statements**

none

## 3. Composition/information on ingredients

### *Synonyms*

Sulfamic acid

CAS-No.: 5329-14-6

M: 97.09 g/mol

Molecular formula: H<sub>2</sub>NSO<sub>3</sub>H

## 4. First aid measures

### **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.

**5. Fire-fighting measures****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**6. Accidental release measures****Personal precautions**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions**

Do not let product enter drains. Discharge into the environment must be avoided.

**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.

**7. Handling and storage****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.

**Conditions for safe storage**

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

**8. Exposure controls and personal protection****Appropriate engineering controls**

General industrial hygiene practice.

**Personal protective equipment****Eye/face protection**

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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. 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**

Do not let product enter drains. Discharge into the environment must be avoided.

**9. Physical and chemical properties**

**Form:** crystals

**Colour:** colorless or white

**Odour:** not available

**pH value:** 1,5 at 10 g/l at 20 °C

**Melting point:** 205 °C

**Boiling point:** not available

**Ignition temperature:** not available

**Flash point:** not available

**Autoignition temperature:** not available

**Explosion limits**

**lower:** not available

**upper:** not available

**Density :** 2.13 g/cm<sup>3</sup>

**Bulk density:** not available

**Solubility in**

**water (20 °C) :** not available

**diluted acids (20 °C) :** not available

**Thermal decomposition:** not available

**10. Stability and reactivity**

**Chemical stability**

Stable under recommended storage conditions.

**Conditions to avoid**

No data available

**Materials to avoid**

Strong oxidizing agents, Strong bases

**Hazardous decomposition products**

Other decomposition products - no data available

**11. Toxicological information**

**Acute toxicity**

LD50 Oral - rat - 3.160 mg/kg

LD50 Oral - mouse - 1.312 mg/kg

LD50 Oral - guinea pig - 1.050 mg/kg

**Skin corrosion/irritation**

Skin - rabbit

Result: Moderate skin irritation

Skin - Human

Result: Mild skin irritation

**Serious eye damage/eye irritation**

Eyes - rabbit

Result: Moderate eye irritation

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

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.

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**12. Ecological information**

**Toxicity**

Toxicity to fish      static test LC50 - Pimephales promelas (fathead minnow) - 70,3 mg/l - 96 h

**Persistence and degradability**

Biodegradability Result: - Not readily biodegradable.

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

Harmful to aquatic life with long lasting effects.

**13. Disposal considerations**

**Product**

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

**Contaminated packaging**

Dispose of as unused product.

**14. Transport information**

**ADR/RID**

UN-Number: 2967    Class: 8    Packing group: III

Proper shipping name:    SULPHAMIC ACID

**IMDG**

UN-Number: 2967    Class: 8    Packing group: III

Proper shipping name:    SULPHAMIC ACID

Marine pollutant: no

**IATA**

UN-Number: 2967    Class: 8    Packing group: III

# **GHTECH** Material Safety Data Sheet

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Proper shipping name: SULPHAMIC ACID

## **15. Regulatory information**

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

## **16. Other information**

General update.

*Regional representation:*

This information is given on the authorised Safety Data Sheet for your country.