

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

Identification of the product:

Product number: AC2051

Name of material: Sulfamic acid, extra pure

Use of the substance/preparation:

analytical chemistry, titrant in volumetric analysis (reference material), for determination of: nitrous acid.

Australian representation:

Chem-Supply Pty. Ltd.

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2. Composition/information on ingredients

Identification and amount of the components:

Synonyms: Amidosulfonic acid, Sulfaminic acid, Sulfamidic acid, Aminosulfonic acid

CAS: 5329-14-6

Molecular weight: 97,09

EC index no.: 016-026-00-0

EC number: 226-218-8

Formula: HSO₃NH₂

Classified as hazardous according to criteria of NOHSC

3. Hazards identification

Hazards classification for the substance according to the European directives:

Irritating to eyes and skin Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

After inhalation: Fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After ingestion: plenty of water to drink. Summon doctor.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Summon eye specialist.

5. Fire-fighting measures

Suitable extinguishing media: To suit environment.

Special risks: Non-combustible. Formation of dangerous vapours possible in event of fire.

The following may develop in event of fire: sulfoxides, nitrogen oxides.

Special protective equipment for fire fighting: Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Further information: Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

6. Accidental release measures

Person-related precautionary measures: Avoid generation of dusts; do not inhale dusts. Avoid substance contact.

Environmental precautions: Do not allow to enter sewerage system.

Procedures for cleaning / absorption: Carefully take up dry. Forward for disposal. Clean up.

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7. Handling and storage

Handling: No further requirements.

Storage: Store tightly closed and dry. Store at + 15°C to + 25°C.

8. Exposure controls/personal protection

Exposure limit values: (MAK, Germany):

Exposure controls:

Occupational exposure controls: The personal protective equipment must be selected according to the working place, based on the concentration and amount of the dangerous substance. The supplier should indicate the stability of the personal protective equipment to chemical reagents.

Respiratory protection: required when dusts are generated.

Hand protection: required

Eye protection: required

Skin protection: Application of skin-protective barrier cream recommended.

Industrial hygiene: Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

General information:

Form: solid

Colour: white

Odour: odourless

Important health, safety and environmental information:

pH value: (10 g/l H₂O, 25 °C) 1,18

Boiling temperature: ---

Flash point: ---

Explosion limits (low): ---

Explosion limits (high): ---

Vapour pressure: ---

Density (20 °C): ---

Solubility in water: (20 °C): 213 g/l

Viscosity: ---

Refractive index: ---

Melting temperature: 205 °C (decomposes)

Ignition temperature: ---

10. Stability and reactivity

Conditions to be avoided: Strong heating (decomposition).

Substances to be avoided: halogens, alkali hydroxides solutions, oxidizing agents (i.a.: nitrates, nitrites, nitric acid), metals/water.

Hazardous decomposition products: In event of fire: see chapter 5.

11. Toxicological information

Acute toxicity:

LD₅₀(oral, rat): 3160 mg/kg

Specific symptoms in animal studies:

Eye irritation test (rabbit): Severe irritations.

Skin irritation test (rabbit): Severe irritations.

Further toxicological information:

After inhalation: (powder): Irritating to respiratory system, coughing, dyspnoea.

After skin contact: irritations

After eye contact: Severe irritations.

After ingestion: irritations of mucous membranes in the mouth, pharynx, oesophagus, and gastrointestinal tract.

Further information:

The product should be handled with the care usual when dealing with chemicals.

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12. Ecological information

Ecotoxic effects: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

Harmful effect due to pH shift.

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product: There are no uniform EU Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EU member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging: Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Road transport:

UN-No: 2967

ADR class: 8 C2 III

Correct technical name: SULPHAMIC ACID

Sea transport:

UN-No: 2967

IMDG class: 8 III

Correct technical name: SULPHAMIC ACID

Air transport:

UN-No: 2967

IATA/ICAO class: 8 III

Correct technical name (IATA): SULPHAMIC ACID

15. Regulatory information

EC-classification: This product has been included in the dangerous substances index with its corresponding EC index number, so it has been classified according to the 67/548/EEC directive and its later adaptations.

Symbol: Xi (Irritant)

R-phrases: 36/38-52/53 Irritating to eyes and skin Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases: 26-28.1-61 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Avoid release to the environment. Refer to special instructions/Safety data sheets.

EC-Index-No: 016-026-00-0

16. Other information

Reason for the revision: General update.

Date: 26/03/2008

The information supplied in this data sheet, is based on the present state of our knowledge. The purpose of this information, is only to describe the security measures to follow in the handling of the product. Therefore it does not represent a guarantee about the properties of the product.