



NAVXPORT WORLDWIDE LLP

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SAFETY DATA SHEET

Sulfamic Acid

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name	Sulfamic Acid
CAS-No.	5329-14-6
EC-No.	226-218-8
Index-No.	016-026-00-0
Relevant Uses	Manufacture of substances.
Company	NAVXPORT WORLDWIDE NMR-A-47, New Minal, Govindpura Industrial Area, Bhopal - 462023, MP, INDIA
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SECTION 2: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008:

- Skin Irritation (Category 2), H315
- Eye Irritation (Category 2), H319
- Hazardous to the aquatic environment, chronic (Category 3), H412
- Specific Target Organ Toxicity - Single Exposure (Category 3), Respiratory Tract Irritation, H335



Signal Word: WARNING

Hazard Statements:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

P273: Avoid release to the environment.

P280: Wear protective gloves/eye protection/face protection.

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

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name	Sulfamic Acid
Formula	H3NO3S
Molecular Weight	97.09 g/mol
Concentration	≥ 95%

SECTION 4: FIRST AID MEASURES

Human Health Values (DNEL)

- **Worker (Inhalatory):** \$70.5~mg/m^{3}\$ (Chronic - systemic effects)
- **Worker (Dermal):** \$10~mg/kg\$ bw/day (Chronic - systemic effects)

General Advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

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

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIREFIGHTING MEASURES

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

Special Hazards: Nitrogen oxides (NO_x), Sulphur oxides.

Advice for Firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

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.

Methods for Cleaning Up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters: Contains no substances with occupational exposure limit values.

Personal Protective Equipment:

Eye/Face: Safety glasses with side-shields conforming to EN166.

Skin: Handle with gloves. Gloves must be inspected prior to use.

Body: Impervious clothing selected according to the concentration and amount of the dangerous substance.

Respiratory: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: crystalline; Colour: white
pH	1.2 at 10 g/l at 25 °C
Melting Point	205 °C (decomposition)
Flash Point	Not applicable
Water Solubility	213 g/l at 20 °C
Density	2.151 g/cm ³ at 25 °C

SECTION 10: STABILITY AND REACTIVITY

- **Strong oxidizing agents**
- **Strong bases** (Neutralization causes significant heat)
- **Nitrates and Nitrites:** Risk of explosion and release of toxic nitrogen gases.
- **Chlorine/Hypochlorites:** May form explosive nitrogen trichloride.
- **Cyanides:** Contact may release toxic Hydrogen Cyanide gas.

Stability: Stable under recommended storage conditions.

Incompatible Materials: Strong oxidizing agents, Strong bases.

Hazardous Decomposition Products: Formed under fire conditions: Nitrogen oxides, Sulphur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 Oral - Rat - 3,160 mg/kg.

Skin Corrosion/Irritation: Skin - Rabbit - Moderate skin irritation - 24 h.

Serious Eye Damage: Eyes - Rabbit - Moderate eye irritation.

Germ Cell Mutagenicity: No data available.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to Fish: LC50 - Pimephales promelas (fathead minnow) - 70.3 mg/l - 96 h.

Persistence/Degradability: No data available.

Bioaccumulative Potential: No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Regulation	UN Number	Proper Shipping Name	Class	Packing Group
ADR/RID	UN 2967	SULPHAMIC ACID	8	III
IMDG	UN 2967	SULPHAMIC ACID	8	III
IATA	UN 2967	Sulphamic acid	8	III

EMS-No: F-A, S-B | Marine Pollutant: No

*Note: Sulfamic Acid is classified as UN 2967, Class 8. Refer to specific shipping papers.

SECTION 15: REGULATORY INFORMATION

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

SECTION 16: OTHER INFORMATION

Disclaimer: The above information 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. NavXport Worldwide LLP shall not be held liable for any damage resulting from handling or from contact with the above product.