



Safety Data Sheet

1. IDENTIFICATION

Product Identifier: Sulfamic Acid, 10% w/v

Product Code(s): CF1163

Synonyms: Amidosulfonic Acid; Amidosulfonic Acid; Sulfamidic Acid; Sulfami

Acid

Recommended Use: For manufacturing, industrial, and laboratory use only. Use as a laboratory reagent.

Uses Advised Against: Not for food, drug, or household use.

Supplier: Rocky Mountain Reagents, Inc.

4621 Technology Drive, Golden, CO 80403 Phone: (303) 762-0800 Fax: (303) 762-1240

Emergency Phone Number: For health emergency, call poison control: (800) 222-1222.

2. HAZARDS IDENTIFICATION

Hazard Classifications: Not applicable.

Signal Word: Not applicable.

Hazard Statements: Not applicable.

Pictograms: Not applicable.

Precautionary Statements:

Prevention: Not applicable.

Response: Not applicable.

Storage: Not applicable.

Disposal: Not applicable.

Hazards Not Otherwise

Classified:

Not applicable.

Toxicity Statement: Not applicable.

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H ₂ O	> 90.0
Sulfamic Acid	Amidosulfonic Acid	5329-14-6	NH₂SO₃H	< 10.0

Trade Secret Statement: Not applicable.

4. FIRST AID MEASURES

First Aid Procedures:

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious, or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device. Call a physician if symptoms occur.

Ingestion: Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. If

vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center if symptoms

occur.

Skin Contact: Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing and

shoes. Wash clothing before reuse. Call a physician if symptoms occur.

Eye Contact: Check for and remove contact lenses, if present and easy to do. Immediately flush eyes with

gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids

occasionally. Call a physician if symptoms occur.

General Advice: Poison information centers in each state can provide additional assistance for scheduled

poisons. Ensure that those providing first aid and medical personnel are aware of the

material(s) involved and take precautions to protect themselves.

Symptoms and Effects: Inhalation may cause coughing, sneezing, choking sensation, and hoarseness. Ingestion

may cause headache, nausea, vomiting, diarrhea, and thirst. Skin contact may cause

irritation. Eye contact may cause irritation.

Immediate Medical Care/

Special Treatment:

Call a physician or poison control center if symptoms occur. Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry powder, alcohol resistant foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a solid (straight) water stream, as it may scatter and spread fire.

Hazardous Combustion

Products:

Nitrogen oxides, sulfur oxides.

Specific Hazards: Excessive thermal conditions may yield corrosive and/or toxic fumes. Contact with metals

may produce flammable hydrogen gas.

Special Protective Equipment/

Precautions for Firefighters:

As in any fire, wear MSHA/NIOSH approved (or equivalent), self-contained, positivepressure or pressure-demand breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment:

Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Keep upwind. Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing.

Emergency Procedures:

In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

Methods for Containment:

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover liquid when possible.

Methods for Cleanup:

Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a non-combustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Residues from spills can be diluted with water and neutralized with alkaline material such as soda ash or lime. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

7. HANDLING AND STORAGE

Handling: Wear personal protective equipment (see Section 8). Use only in well-ventilated areas.

Provide sufficient air exchange and/or exhaust in work rooms. Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues (vapors, liquids). Observe all warnings and precautions listed for this product. As with all acids, never add water directly to this product. Instead, add acids to water to prevent

violent eruption of the solution.

Storage: Store in a cool, dry, ventilated area. Store in an approved area away from heat and

incompatible materials (see Section 10). Store in original container. Do not store in metallic containers. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: No information found.

Engineering Controls: Ensure adequate ventilation. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not

been established, maintain airborne levels to an acceptable level.

Personal Protective Measures:

Eye/Face Protection: Wear safety glasses with side shields or safety goggles. Wear a face shield. Maintain

approved eye wash station and accessible rinse facilities in work area.

Skin Protection: Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical

resistant gloves.

Respiratory Protection: An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be

permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

Ensure that glove material is compatible with this product. This information is available from

Specific Requirements for Personal Protective

glove manufacturers.

Equipment:

9. PHYSICAL AND CHEMICAL PROPERTIES

Unless otherwise indicated, all properties are given at 25 °C and standard pressure.

Appearance: Colorless, transparent liquid.

Odor: Odorless.

Odor Threshold: No information found.

Formula Weight: 97.09 (as sulfamic acid)

pH: < 2

Melting/Freezing Point:No information found.Boiling Point/Range:No information found.Decomposition Temperature:No information found.

Flash Point: Not applicable.

Auto-ignition Temperature: Not applicable.

Flammability: Not flammable.

Flammability/Explosive Limits: Not applicable.

Solubility: Miscible with water, ether.

Vapor Pressure: No information found.

Vapor Density (Relative): No information found.

Specific Gravity: > 1.0 (Water = 1)

Evaporation Rate:No information found.Viscosity:No information found.Partition CoefficientNo information found.

(n-octanol/water):

10. STABILITY AND REACTIVITY

Reactivity Data: No information found.

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Excessive heat, excessive ambient moisture, incompatible materials.

Incompatible Materials: Strong oxidizing agents, strong bases, metals, nitric acid, chlorine.

Hazardous Decomposition

Products:

Nitrogen oxides, sulfur oxides.

Possibility of Hazardous

Reactions:

May react vigorously, violently, or explosively with the incompatible materials listed above.

Contact with metals may produce hazardous concentrations of hydrogen gas.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation, ingestion, skin contact, eye contact.

Acute Effects: May be harmful if swallowed, inhaled, or absorbed through the skin. Causes irritation of the

eyes, skin, respiratory tract, and gastrointestinal tract.

Chronic Effects: No information found.

Toxicological Data: Water: No information found.

Sulfamic Acid: LD₅₀ Oral, Rat: 3,160 mg/kg

Causes skin and eye irritation based on animal data.

Symptoms of Exposure: Irritation, coughing, sneezing, choking sensation, hoarseness, chest pains, headache,

nausea, vomiting, diarrhea, thirst.

Carcinogenic Effects: No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or

OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicological Data: Water: Not applicable.

Sulfamic Acid: LC₅₀ Fathead Minnow (Pimephales promelas): 14.2 mg/L 96 h

Persistence and Degradability: Expected to be readily biodegradable.

Environmental Effects: May be harmful to aquatic organisms. May leach into groundwater. Avoid exposure to the

environment.

13. DISPOSAL INFORMATION

Disposal Instructions: All wastes must be handled in accordance with local, state, and federal regulations.

Minimize exposure to product waste (see Section 8). Do not dispose unused waste down

drains or into sewers.

Contaminated Packaging: Because emptied containers retain product residue, follow label warnings even after

container is emptied. Offer rinsed packaging material to local recycling facilities.

Waste Codes: D002: Waste Corrosive Material (pH ≤ 2 or pH ≥12.5 or corrosive to steel)

14. TRANSPORT INFORMATION

DOT: Not regulated.

Environmental Hazard

Regulations:

No information found.

Other Transport Precautions: No information found.

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15. REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA: This product is not considered a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Inventory: All components of this product are on the U.S. TSCA Inventory.

U.S. EPCRA (SARA Title III):

Section 302: No information found.

Sections 311/312:

Hazard Category	List (Yes/No)	
Section 311 – Hazardous Chemical	No	
Immediate Hazard	No	
Delayed Hazard	No	
Fire Hazard	No	
Pressure Hazard	No	
Reactivity Hazard	No	

Section 313: No information found.

CERCLA Reportable Quantities: No information found.

International Inventories:

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates that the listed component(s) of this product comply with the inventory requirements administered by the governing country or region.

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16. OTHER INFORMATION

Disclaimer:

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Reason for Revision: Update of Section 1, 2, 3, 4, 9, 11, 12, 15 over 11/16/2015 version.