



# Material Safety Data Sheet

**I - Product Identification****Product Name:****Sulfadiazine, USP****Code:** 0550**Empirical Formula:**C<sub>10</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>S**CAS#:** 68-35-9**Chemical Name:**

Benzenesulfonamide, 4 -amino -N -2 -pyrimidinyl-

**Uses:**

Antibacterial

**II - Toxicological Information****Irritancy:**

May be irritating to eyes, skin, mucous membranes and upper respiratory tract.

**Adverse effects:**

Extremely hazardous in case of ingestion. Gastrointestinal irritation, fever, mental and visual disturbances, sensitivity reactions, urticaria, hematuria, agranulocytosis, hemolytic anemia, thrombocytopenia, purpura, petechiae, jaundice, and increased erythema.

**Toxicity Data:****Oral:**

Mouse: LD50: 1500mg/kg

**III - Physical Data****State:**Liquid  Solid  Gas **Description:**

White or slightly yellow powder. Is odorless or nearly odorless, and is stable in air but slowly darkens on exposure to light.

**Solubility:**

Practically insoluble in water; freely soluble in dilute mineral acids, in solutions of potassium and sodium hydroxides, and in ammonia TS; sparingly soluble in alcohol and in acetone; slightly soluble in human serum at 37°C.

**Other Physical Properties:**

mw: 250.30

mp: 254 °C

**USP Specifications:**

Identification&lt;197k&gt;:

Conforms to the std tests (A, B, C)

Acidity:

&lt;=0.20ml 0.10N NaOH required.

Selenium&lt;291&gt;:

&lt;=0.003%

Heavy metals&lt;231&gt;:

&lt;=0.002%

Clarity and colour of solution:

Clear and no more deeply colored than pale yellow.

Packaging and Storage:

Preserve in well-closed, light-resistant containers.

Loss on drying&lt;731&gt; : &lt;=0.5%

Residue on ignition&lt;281&gt;: &lt;=0.1%

Ordinary impurities&lt;466&gt;: Meets the requirements.

Assay (on dried basis): 98.0%-102.0%

**IV - Fire And Explosion Hazards****Flammability:**

May be combustible at high temperature.

**Flash Point:**

N/A

**Extinguishing Media:**

Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

**Fire fighting:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**V - Reactivity Data****Stability:**

Stable in air, but slowly darkens on exposure to light.

**Incompatibility:**

Strong oxidizing agents.

**Hazardous Decomp. Products:**

Toxic fumes of carbon dioxide, carbon monoxide, nitrogen oxides, sulphur oxides.

**Hazardous Polymerization:**

Will not occur.

**VI - Preventive Measures****Prevention**

Do not prescribe the drug unnecessarily. Use the minimum doses necessary to cure the disease. Discontinue long-acting sulfadiazne immediately if skin rash occurs.

**Personal Protective Equipment:**

Chemical resistant gloves and safety goggles, respirator.

**Specific Engineering Controls:**

Adequate mechanical ventilation. Eyewash station.

**Spills & Leaks:**

Wear self-contained breathing apparatus, rubber boots and gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete.

**Waste Disposal:**

Dissolve in a combustible solvent. Burn in a chemical incinerator equipped with afterburner and scrubber according to local laws and regulations.

**Storage:**

Preserve in well-closed, light-resistant containers.



# MEDISCA INC.

661 Route 3, Unit C, Plattsburgh, New York, 12901

Tel.: (800) 665-6334 Fax: (518) 563-5047

## **VII - First Aid Measures**

**Eyes:** Flush with copious amounts of water for 15 minutes, separating eyelids with fingers.

**Skin:** Wash with soap & water for 15 minutes.

**Ingestion:** Call a physician. Wash out mouth with water.

**Inhalation:** Remove to fresh air. If not breathing, give A.R. If breathing is difficult, give oxygen.

**NOTE:** If victim is unconscious, never induce vomiting nor give liquids. Place victim in a stable side position and keep warm.

**Ecological Data:** N/A

**Hazardous Ingredients:** N/A

**References:** Available on request