



Material Safety Data Sheet

I - Product Identification

Product Name: Sulfadiazine, USP
Empirical Formula: C₁₀H₁₀N₄O₂S
Chemical Name: Benzenesulfonamide, 4 -amino -N -2 -pyrimidinyl-
Uses: Antibacterial

Code: 0550
CAS#: 68-35-9

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<197k>: Conforms to the std tests (A, B, C) | Loss on drying<731> : <=0.5%
 Acidity: <=0.20ml 0.10N NaOH required. | Residue on ignition<281>: <=0.1%
 Selenium<291>: <=0.003% | Ordinary impurities<466>: Meets the requirements.
 Heavy metals<231>: <=0.002% | Assay (on dried basis): 98.0%-102.0%
 Clarity and colour of solution: Clear and no more deeply colored than pale yellow.
 Packaging and Storage: Preserve in well-closed, light-resistant containers.

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.



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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