



Material Safety Data Sheet

I - Product Identification

Product Name:**Sulfadiazine, USP****Code:** 0550**Empirical Formula:** $C_{10}H_{10}N_4O_2S$ **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<197k>:

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

Acidity:

<=0.20ml 0.10N NaOH required.

Selenium<291>:

<=0.003%

Heavy metals<231>:

<=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<731>: <=0.5%

Residue on ignition<281>: <=0.1%

Ordinary impurities<466>: 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 sulfadiazine 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