



Safety Data Sheet: Silver sulfate (Ag₂SO₄)

1. Product and Company Identification

Trade Name: Silver Sulfate
Chemical Formula: Ag₂SO₄
Recommended Use: Commercial
Manufacturer/Supplier: Modison Metals Ltd, Vapi, India 396195
Tel #: +91 260 2431093

2. Hazards Identification

Hazard Classification:
Hazardous according to criteria of 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)
Hazardous and/or Dangerous Nature:
Causes serious eye damage/irritation --- category 1
Safety Phrases:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.
In case of accident or if you feel unwell seek medical advice immediately.
This material and its container must be disposed of as hazardous waste.
Avoid release to the environment. Refer to special instructions/safety data sheet.

3. Composition

Chemical Family: Silver salt
Silver (Ag): 69.2%
Ag₂SO₄(%) : >99%
CAS #: 10294-26-5

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.
Special Treatment: Treat symptomatically
Important Symptoms: Causes Eye burns
Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion: Rinse mouth thoroughly. Give one to two glasses of water. Do not induce vomiting if swallowed.
Never give anything by mouth to an unconscious person.
Skin: Wash affected area thoroughly with plenty of running water. Remove contaminated clothing and wash before reuse. If symptoms develop seek medical attention.
Eyes: Flush eyes with water, blinking often for ten minutes.

5. Fire and Explosion Hazards Data

Flammability: Non-flammable
Flash Point: Not available
Autoignition Temperature: not available



Extinguishing Media: Do not use water for metal fires. Use special powder, sand, CO₂
Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below TLV.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 0.01 mg/m³

Threshold Limit Value: 0.1 mg/m³

Special Equipment: None

Respiratory Protection: Should comply with AS1716 and be selected in accordance with AS1715. In event of emergency a full-face piece SCBA should be used

Protective Gloves: Should comply with AS2161. Excellent gloves made from NR Latex, vinyl or neoprene.

Good glove made from Nitrile can also be used

Eye Protection: Face shield, chemical goggles or safety glasses with side shields.

Body Protection: Protective work clothing. Wear close-toed shoes and long sleeves/pants.

9. Physical and Chemical Characteristics

Color: White solid

Form: Crystals/powder

Odor: Odorless

Solubility: Readily soluble in ammonia water.

pH:

Decomposition temperature: ~444C

Taste: Bitter, caustic metallic taste

Melting Point: ~652°C

Density: ~5.5 g/cc

Molecular weight: 311.8



10. Stability/Reactivity

Stability: Stable under recommended storage conditions. Light sensitive

Reactivity: Not available:

Haz. Decomposition Products: None under normal use.

11. Toxicological Information

Potential Health Effects:

Eyes: Causes irritation

Skin: May cause irritation

Ingestion: Harmful if swallowed

Inhalation: May cause irritation

Chronic: Not available

Signs & Symptoms of Exposure: Not available

Medical Conditions

Aggravated by Exposure: Not available

Median Lethal Dose: Not available

12. Ecological Information

Ecotoxicity: May be toxic for aquatic organisms. May cause long term adverse effects in the aquatic environment. Persistence & degradability: NA

Bioaccumulative Potential: Highly bioaccumulative

Environmental Protection: Do not let the product enter waters, waste water or soil.

13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

14. Transportation Data

Hazardous: May be Hazardous for transportation.

Proper Shipping Name: Silver Sulfate

15. Regulatory Information

Listed in International inventories : TSCA, DSL, NDSL, ELINCS, NLP, PICCS, ENCS, AICS, IECSC & KECL

16: Other Information

The information and recommendations are taken from sources believed to be accurate.