

Material Safety Data Sheet (MSDS)

Quinine Sulfate Dihydrate

Revision Date: 22-September-2025

Version: 1.0

Section 1: Product Identification

- **Product Name:** Quinine Sulfate Dihydrate
- **Chemical Formula:** $C_{40}H_{50}N_4O_8S \cdot 2H_2O$
- **CAS No:** 6119-47-7
- **Synonyms:** Quinine sulfate hydrate; Cinchona alkaloid sulfate dihydrate
- **Recommended Use:** Pharmaceutical ingredient (antimalarial), laboratory chemical.

Section 2: Hazards Identification

- **Classification (GHS):** Acute toxicity, Oral (Category 3); Eye irritation (Category 2A); Specific target organ toxicity — repeated exposure (Category 2).
- **Signal Word:** Danger
- **Hazard Statements:**

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GROUP OF Triveni CHEMICALS

- Toxic if swallowed
- Causes serious eye irritation
- **Precautionary Statements:**
 - Wash hands thoroughly after handling
 - Wear protective gloves/eye protection
 - IF SWALLOWED: Immediately call a POISON CENTER/doctor

Section 3: Composition / Information on Ingredients

- **Concentration:** 100%

Section 4: First Aid Measures

- **Inhalation:** Remove to fresh air. Seek medical attention if symptoms occur.
- **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation develops.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

Section 5: Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, dry chemical, foam, carbon dioxide.
- **Specific Hazards:** Emits toxic fumes of carbon oxides, nitrogen oxides, and sulfur oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective gear.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use personal protective equipment. Ensure adequate ventilation.
- **Environmental Precautions:** Prevent entry into drains and waterways.
- **Cleanup Methods:** Sweep up and place in suitable container for disposal. Avoid generating dust.

Section 7: Handling and Storage

- **Handling:** Avoid breathing dust. Avoid contact with skin, eyes, and clothing. Use with adequate ventilation.
- **Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place. Protect from moisture and light.

Section 8: Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limits established.
- **Engineering Controls:** Provide adequate ventilation and local exhaust if dust generated.
- **Personal Protective Equipment:** Protective gloves, safety goggles, lab coat; dust respirator if exposure limits are exceeded.

Section 9: Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless or slight characteristic odor
- **Boiling Point:** Not applicable (decomposes)
- **Flash Point:** Not applicable (non-volatile solid)
- **Solubility:** Sparingly soluble in water; soluble in dilute sulfuric acid, ethanol
- **Molecular Weight:** 782.96 g/mol (anhydrous base plus 2H₂O)

Section 10: Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Incompatible Materials:** Strong oxidizing agents.

- **Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides, sulfur oxides under fire conditions.

Section 11: Toxicological Information

- **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.
- **Acute Effects:** Toxic if swallowed; may cause nausea, vomiting, headache, tinnitus, visual disturbances. Causes eye irritation.
- **Chronic Effects:** Prolonged exposure may cause cinchonism (hearing loss, visual disturbances, cardiac effects).

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life in high concentrations.
- **Persistence and Degradability:** Expected to be biodegradable.
- **Bioaccumulative Potential:** Low potential.

Section 13: Disposal Considerations

- Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment.

Section 14: Transport Information

- **UN Number:** Not regulated for transport
- **Proper Shipping Name:** Quinine Sulfate Dihydrate
- **Hazard Class:** Not classified as dangerous goods
- **Packing Group:** Not applicable

Section 15: Regulatory Information

- Complies with Indian chemical safety regulations and listed under international chemical inventories (TSCA, EINECS, etc.).
- Classified as hazardous substance as per GHS.

Section 16: Other Information

- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaims any liability for damage resulting from handling or contact.