

MATERIAL SAFETY DATA SHEET

(QUININE SULPHATE)

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Quinine Sulphate
Company Identification : Nicotine Vault
Culver St, Somerville, NJ, 08876, USA
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SECTION 2 HAZARDS IDENTIFICATION

2.1 Potential Acute Health Effects

Hazardous in case of eye contact(irritant), of ingestion, of inhalation, slightly hazardous in case of skin contact (irritant) permeator).

2.2 Potential Chronic Health Effects

Slightly hazardous in case of skin contact (sensitizes)
CARCINOGENIC EFFECTS: Not Available. MUTAGENIC EFFECTS: Not Available.
TERATOGENIC EFFECTS: Not Available.
DEVELOPMENTAL TOXICITY: Not Available. The substance is toxic mucous membranes.

Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION 3 COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Composition:

Name	CAS#	% By Weight
Quinine Sulphate	6119-70-6	100 %

Catalog Codes: SLQ1069

CAS#: 6119-70-6

RTECS: VA8440000

TSCA: TSCA8 (b) inventory: Quinine Sulphate Di-hydrate

CI#: Not available

Synonym: 6-Methoxycinchonan-9-ol-Sulfate

Chemical Name: Not available

Chemical Formula: (C₂₀H₂₄N₂O₂)₂.H₂SO₄.2H₂O

Toxicological Data on Ingredients: Quinine Sulphate: LD50: Not available, LC50: Not available.

SECTION 4 FIRST AID MEASURES Eye

Contact:

Check for and remove any contact lenses. In case of contact, immediately flush with plenty of water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

SECTION 5 FIRE FIGHTING MEASURES

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available

Flash Point: Not available

Flammable Limits: Not available.

Product of Combustion: These product are carbon oxides (CO, CO₂), Nitrogen oxides (NO, NO₂...), Sulfur oxides (SO₂, SO₃...)

Fire Hazards in Presence of Various Substances: Not available

Explosion Hazards in presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. A risk of explosion of the product is presence of static discharge: Not available.

Fire Fighting Media and Instruction:

SMALL FIRE: Use DRY Chemical powder.

LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Material is powder form, capable of crating a dust explosion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

SECTION 7 HANDLING AND STORAGE

Precaution:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk; evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Avoid contact with eyes wear suitable protective clothing in case of insufficient ventilation, wear suitable respiratory equipment If you feel unwell, seek medical attention and show the label when possible.

Storage: Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly close. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Control:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Splash glasses. Lab coat. Dust respirator. Be sure to use an approve/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFFORE handling this product.

Exposure Limits: Not available.

Components with workplace control parameters.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Solid. (Powder solid).

Odor: Odorless.

Taste: Not available.

Molecular Weight: 782.95 g/mole

Color: White

pH (1% w/v solution): Not available

Boiling Point: Decomposition

Melting point: 205°C. (401°F)

Critical Temperature: Not available

Specific Gravity: Not available

Vapor Pressure: Not applicable

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available

Water/Oil Dist. Coeff: Not available

Iconicity (in water): Not available

Dispersion Properties: See solubility in water, diethyl ether, acetone.

SECTION 10 STABILITY AND REACTIVITY

10.1 Stability: The product is stable.

Instability Temperature: Not available

Conditions of instability: Not available

Incompatibility with various substances: Not available **Corrosivity:**

Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not applicable.

Special Remarks on Corrosivity: Not available **Polymerization:**

No

SECTION 11 TOXICOLOGICAL INFORMATION

Routes of Entry: Eye Contact. Inhalation, Ingestion.

Toxicity to Animals: Quinine - Toxicity Data: Oral TDLO (woman): 74 mg/kg; Oral LDLO (rat): 800 mg/kg; Intraperitoneal LD (rat): >100 mg/kg; Subcutaneous LDLO (rat): 200 mg/kg; Intraperitoneal LD50 (mouse): 115 mg/kg; Subcutaneous LDLO (mouse): 200 mg/kg;

Chronic Effects on Humans: Quinine - Investigated as a mutagen and reproductive effector.

Other Toxic Effects on Humans: Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (irritant, permeator).

Special Remarks on Toxicity to Animals: Not available

Special Remarks on Chronic Effects on Humans: Not available

Special Remarks on other Toxic Effects on Humans: Not available

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: Not available

BOD5 and COD: Not available.

Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with local, state, and federal regulations.

SECTION 14 TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

SECTION 15 REGULATORY INFORMATION

Federal and State Regulations: TSCA 8(b) inventory: Quinine Sulphate.

Other Regulations: Not available **Other Classifications:**

DSCL (EEC): R36- Irritating to eyes.

HMIS (U.S.A.):

Health Hazard: 2 Fire Hazard: 1 Reactivity: 0 Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2 Flammability: 1 Reactivity: 0

Protective Equipment: Gloves,

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

SECTION 16 ADDITIONAL INFORMATION

References: Not available

Other Special Considerations: Not available.

The information above is believed to accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Nicotine Vault Industries Ltd be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever, arising, even if Nicotine Vault Industries Ltd. has been advised of the possibility of such damages