

MATERIAL SAFETY DATA SHEET

Chemical Product

Product Name: QUININE SULPHATE Dihydrate 99.5% AR
 CAS#: 207671-44-1
 Chemical Name: QUININE SULPHATE Dihydrate 99.5% AR
 Chemical Formula: (C₂₀H₂₄N₂O₂)₂.H₂SO₄.2H₂O

Composition and Information on Ingredients

Substance / Preparation: QUININE SULPHATE Dihydrate 99% AR
 CAS No: 207671-44-1
 Substance.
 Contains no other components or impurities which will influence the classification of the product.

Name	S.K.U	% by Weight
QUININE SULPHATE Dihydrate 99.5% AR	GCS-9954	100

Hazards Identification

Classification of the substance or mixture
Classification EC 67/548 or EC 1999/45
Classification : Xi; R36/37/38

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)
 Health hazard: Specific Target Organ Toxicity - Single exposure -
 Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3)
 H335
 Eye irritation - Category 2A - Warning
 (CLP : Eye Irrit. 2) H319 Skin irritation -
 Category 2 - Warning (CLP : Skin Corr. 2)
 H315
 Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

First Aid Measures

Description of first aid measures:

Inhalation: Remove to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin contact: Get medical advice. Specific treatment (see on this label). Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation occurs :

Eye contact: Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Ingestion: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed:

Symptoms relating to use: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.

Indication of any immediate medical attention and special treatment needed:

General information: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Fire and Explosion Data

Extinguishing media:

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or mixture:

Hazardous combustion products	: Under fire conditions, hazardous fumes will be present.
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Advice for fire-fighters:

Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures	: Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: For emergency responders : Equip cleanup crew with proper protection.

:Ventilate area.

For non-emergency personnel :Evacuate unnecessary personnel.

Environmental precautions

Environmental precautions :Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up:

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

Handling and Storage

Precautions for safe handling

Handling : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

Special precautions: Avoid breathing dust, fume, gas, mist, vapours, spray.

Conditions for safe storage, including any incompatibilities:

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

Exposure Controls/Personal Protection

Exposure controls:

Personal protection: Avoid all unnecessary exposure.

- Respiratory protection: Wear approved mask.
- Hand protection: Wear protective gloves.
- Skin protection: Wear suitable protective clothing.
- Eye protection: Chemical goggles or safety glasses.
- Others: When using, do not eat, drink or smoke.

Control parameters:

Occupational Exposure Limits: No data available.

Physical and Chemical Properties

Physical state and appearance

: Solid

Odor

: Odorless.

Taste	: Not available.
Molecular Weight	: Not available.
Color	: Off white crystalline.
pH (1% soln/water)	: Not available.
Boiling Point	: Not available.
Melting Point	: 225 °C
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.
Ionicity (in Water)	: Not available.
Dispersion Properties	: Not available.
Solubility	: Slightly soluble in water.

Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions to avoid: Direct sunlight. Extremely high or low temperatures.

Incompatibility with various substances: Not available.

Materials to avoid: Strong acids. Strong bases.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

Toxicological Information

Information on toxicological effects:

Acute toxicity:

- Inhalation: Based on available data, the classification criteria are not met.
 - Dermal: Based on available data, the classification criteria are not met.
 - Ingestion: Based on available data, the classification criteria are not met. Corrosion: Based on available data, the classification criteria are not met.
- Sensitization: Based on available data, the classification criteria are not met. Irritation: Causes serious eye irritation.
Causes skin irritation.

May cause respiratory irritation.
Mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met.
Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.

Ecological Information

Toxicity information: Not established.

BOD5 and COD: Not available.

Persistence - degradability: Biodegradable.

Bioaccumulative potential: Not established.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

Environmental precautions: Avoid release to the environment.

Disposal Considerations

Waste Disposal: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

Transformation Information

Land transport (ADR-RID)

General information : Not regulated.

Sea transport (IMDG) [English only]



General information : Not regulated.

Air transport (ICAO-IATA) [English

only]	
General information	: Not regulated.
Other Regulatory Information Safety, health and environmental regulations/legislation specific for the substance or mixture: <div> Safety, health and environmental observed. </div> <div> : Ensure all national/local regulations are </div> <div> regulations/legislation specific for the substance or mixture. </div> <div> REACH Restrictions - Annex XVII subject to restrictions. </div> <div> : The components of this product are not </div> <div> REACH Authorisation - Annex XIV : The components of this product are not subject to authorization. </div> <div> Chemical Safety Assessment: </div> <div> Chemical Safety Assessment </div> <div> : It has not been carried out. </div>	
Additional Information References: Not available. Other Special Considerations: Not available.	

Disclaimer:

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