



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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MSDS No. QQ 10
Effective Date January 2, 1997

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	QUININE SULFATE
Chemical Synonyms	Cinchonan-9-ol, 6' Methoxy (8 α, 9R)
Formula	(C ₂₀ H ₂₄ N ₂ O ₂) ₂ ·H ₂ SO ₄ ·2H ₂ O
Unit Size	up to 500 grams
C.A.S. No.	6119-70-6 (Dihydrate)

CHEMTREC
800-424-9300
Day 716-226-6177

Health	2
Fire	1
Reactivity	0

NFPA HAZARD RATING
LEAST SLIGHT MODERATE HIGH EXTREME
0 1 2 3 4

HMSIS*

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Quinine Sulfate	99-101%	None established.
CAUTION! MAY BE HARMFUL IF INHALED, SWALLOWED		
OR ABSORBED THROUGH SKIN. CAUSES IRRITATION		
TO SKIN, EYES AND MUCOUS MEMBRANES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	160°C (320°F) anhydride	Specific Gravity (H ₂ O = 1)	Data not listed.
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	1 gram is dissolved in 810 mL. water at 20°C.		
Appearance & Odor	White crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Water spray; carbon dioxide (CO ₂); dry chemical.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Slight fire hazard. When heated to decomposition it emits toxic fumes of oxides of nitrogen; can react with strong oxidizing materials.

D.O.T.	NON-REGULATED.
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Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

QQ 10

Threshold Limited Value	None established by (ACGIH 1992-93). RTECS No. VA8440000 TXDS: Oral - woman LDLo: 220 mg/kg.
Effects of Overexposure	INGESTION: (1) Tinnitus, headache, vertigo, nausea, disturbed vision. (2) Diarrhea, vomiting, abdominal pain, hot flushed skin, sweating. (3) Apprehension, excitement, confusion, delirium. (4) Vascular collapse with low blood pressure, restlessness, cold sweating, pallor and syncope. (5) Cardiac standstill due to pacemaker arrest or to ventricular fibrillation. (6) Respiratory depression or respiratory arrest with or without prior cardiovascular disturbances.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then follow with washing with mild soap and water. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **INHALATION:** Remove to fresh air. If ill effects develop, get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Efflorescent on exposure to air and darkens on exposure to light. Protect from light and heat.
	Stable	X	
Incompatibility (Materials to Avoid)	Ammonia, alkalis, limewater, tannic acid, iodine, iodides, acetates, citrates, tartrates, benzoates, salicylates.		
Hazardous Decomposition Products	When heated to decomposition, emits toxic fumes of carbon dioxide and/or carbon monoxide and oxides of nitrogen (NO _x).		
Hazardous Polymerization	Conditions to Avoid	Not applicable.	
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Wearing suitable protective clothing, sweep material onto paper. Place in a suitable container for disposal by incineration. Wash spill area well with soap and water.

Waste Disposal Method

Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in an approved incinerator equipped with an afterburner and scrubber.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear NIOSH/MSHA-approved dust mask.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Lab coat, apron, eye wash station, proper gloves, ventilation hood.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry place away from oxidizing materials and protect from light. Wash thoroughly after handling.

Other Precautions

Read label on container before using. Do not wear contact lenses when working with chemicals.

Do not get in eyes, on skin, on clothing. Avoid breathing dust. Efflorescent on exposure to air and darkens on exposure to light. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 4	Date 1/02/97	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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