



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
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(716) 226-6177

MSDS No. QQ 10
Effective Date April 22, 1999

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
May cause sensitization by inhalation and skin contact. May cause irritation to skin and eyes. Long term exposure may cause hearing deterioration.

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, oxides of nitrogen and oxides of sulfur.

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.
Keep container tightly closed when not in use.

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. 5	Date 4/22/99	Approved Michael Raszeja	Chemical Safety Coordinator MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	QUININE SULFATE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	Health	2
Chemical Synonyms	Cinchonan-9-ol, 6' Methoxy (8 , 9R)		Fire	1
Formula	(C ₂₀ H ₂₄ N ₂ O ₂) ₂ ·H ₂ SO ₄ ·2H ₂ O		Reactivity	0
Unit Size	up to 500 grams		HMIS *	
C.A.S. No.	6119-70-6 (Dihydrate)			

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 (H₂O = 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.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20