



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No. HH 200
Effective Date Nber 6, 1998

SECTION V HEALTH HAZARD DATA

HH 200

Threshold Limited Value TWA: 2 mg/m³ (ACGIH 1992-93). Toxicity data: orl-hmn LD50: 70 - 170 mg/kg, orl-rat LD50 400 mg/kg.

Effects of Overexposure Under conditions of ordinary use, hydroquinone does not present a serious hazard. Ingestion of 1 gram has caused tinnitus, nausea, vomiting, sense of suffocation, shortness of breath, cyanosis, convulsions, delirium, collapse. Death has followed ingestion of 5 grams. Irritation of intestinal tract occurs with oral ingestion. Dermatitis can result from skin contact may cause allergic skin reaction. Staining and opacification of cornea occur in workers exposed for prolonged periods to concentrations of vapor not high enough for production of systemic effects. Relatively safe in very low concentrations.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
EYES: Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Flush thoroughly with water, then wash with mild soap and water. If irritation occurs, get medical attention. **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.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperatures or heat.
	Stable	X		

Incompatibility (Materials to Avoid) Can react with oxidizers.

Hazardous Decomposition Products Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide.

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 Eliminate all sources of ignition. Recover for use if not contaminated. Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Flush spill area with water. Do not allow wash water to pollute water ways and streams.

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 or contract with a licensed waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

Ventilation	Local Exhaust	Yes.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Smock, apron, eye wash station, ventilation hood, proper gloves.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place away from strong oxidizers 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.

Avoid contact with skin and eyes. Use with adequate ventilation. Wash contaminated clothing before reuse.

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

Revision No. 5	Date 11/6/98	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	HYDROQUINONE	 <p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS *</p> <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> </table>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4	Health	2	Fire	1	Reactivity	1
LEAST	SLIGHT		MODERATE	HIGH	EXTREME													
0	1		2	3	4													
Health	2																	
Fire	1																	
Reactivity	1																	
Chemical Synonyms	1,4-Benzenediol; Quinol																	
Formula	C ₆ H ₄ (OH) ₂																	
Unit Size	up to 2.5 Kg.																	
C.A.S. No.	123-31-9																	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Hydroquinone	100%	See Section V.
WARNING! HARMFUL IF SWALLOWED. CAUSES IRRITATION.		
REPEATED EXPOSURE TO VAPOR OR CRYSTALS MAY CAUSE		
EYE INJURY. MAY CAUSE ALLERGIC SKIN REACTION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	169°C (336°F)	Specific Gravity (H ₂ O = 1)	1.341 @ 15°C
Boiling Point (°F)	286°C (547°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible.	Evaporation Rate (=1)	Non-volatile (NA).
Vapor Density (Air=1)	3.81		
Solubility in Water	7 grams per 100 mL. water at 20°C.		
Appearance & Odor	White crystals; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	351°F (177°C) COC	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media Water spray; dry chemical (ABC); carbon dioxide (CO₂).

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.

Ignition Temperature: 930°F (499°C).

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 153)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials
Explosion Hazard: Powered material may form explosive dust-air mixtures.

D.O.T. HYDROQUINONE, SOLID, 6.1, UN 2662, PG III

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