



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No.: MM0165
Effective Date: January 12, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Malachite Green Oxalate
Chemical Synonyms	Basic Green 4; C.I. No. 42000
Formula	C ₅₂ H ₅₄ N ₄ O ₁₂
Unit Size	up to 2.5 Kg.
C.A.S. No.	2437-29-8

 NFPA HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	CHEMTREC 800-424-9300 Day 585-226-6177	<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>	Health	2	Fire	1	Reactivity	1
	Health	2						
Fire	1							
Reactivity	1							
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SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Malachite green oxalate, biological stain	100%	None established.
WARNING!		

HARMFUL IF INHALED OR SWALLOWED. CAUSES SKIN AND EYE IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	164°C (327°F) dec.	Specific Gravity (H ₂ O = 1)	Greater than 1.
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Non-volatile.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (Water =1)	Non-volatile.
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	Soluble.		
Appearance & Odor	Green crystalline powder with metallic luster; 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; dry chemical.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Not considered to be an explosion hazard.

D.O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA

MM0165

Threshold Limited Value	TWA: None established by (ACGIH 2001). Oral-rat: 275 mg/kg. TWA for Oxalic acid [CAS No. 144-62-7] is 1 mg/m ³ .
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Effects of Overexposure	Inhalation of dust is irritating to the mucous membranes and upper respiratory tract. Causes severe eye irritation. May cause skin irritation. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize potential hazards. Target organs: Skin, eyes.
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Emergency and First Aid Procedures	<p>INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. EYES: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. SKIN: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</p>
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SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Protect from light, excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid)	Strong oxidizing materials and reducing agents.
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Hazardous Decomposition Products	When heated to decomposition, emits toxic fumes of oxides of nitrogen and oxides of Carbon.
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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	Ventilate area. Wearing suitable protective clothing, avoid making dust. Recover for use if not contaminated. Sweep material onto paper. Place in a suitable container for disposal by incineration. Wash spill area well with soap and water.
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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 or contract with a licensed waste disposal service.
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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 a NIOSH/MSHA-approved dust mask or respirator.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Lab coat, apron, ventilation hood, proper gloves, eye wash station.
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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. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Do not get in eyes, on skin, on clothing. Avoid breathing dust. Strong dye. Use with adequate ventilation. Remove and wash contaminated clothing.

Revision No. 6	Date 01/12/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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