



# MATERIAL SAFETY DATA SHEET

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MSDS No. 9467702  
Effective Date: December 1, 2005

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Malachite Green HCl, Saturated Solution	416-984-3000	
Chemical Synonyms	Spore Staining Solution		
Formula	Mixture.	<b>HAZARD RATING</b> Minimal 0    Slight 1    Moderate 2    Serious 3    Severe 4	
CAS No.	Mixture.	<b>WHMIS</b> Health 1 Flammability 0 Reactivity 0	

## SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Malachite green, HCl: CAS # 569-64-2	4-5%	N/A
Water: CAS # 7732-18-5	95-96%	N/A

**WARNING!**

## SECTION III PHYSICAL DATA

Melting Point (°C)	Freezes @ ~ 0 °C	Specific Gravity (H <sub>2</sub> O = 1)	~ 1.0
Boiling Point (°C)	- 100°C	Percent Volatile by Volume (%)	95-96%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	< 1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Green liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Not flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO <sub>2</sub> , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.				

Flammability and Explosion Hazards

In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

**TDG** Not a TDG controlled material.

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## SECTION V REACTIVITY DATA

MM0159

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Strong oxidizers.
	No		
Hazardous Decomposition Products	Chlorine and toxic fumes of nitrogen oxide.		
Reactive under what conditions	Excessive temperature may cause evaporation.		

## SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Inhalation. Ingestion.
TLV	There are no TWA established by ACGIH 2001 for this mixture.
Toxicity for animals	N/A
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: None known.
Acute effects on humans	May be harmful if swallowed. Contact may cause irritation to the skin and eyes.

## SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container in a cool, well ventilated place. Keep away from heat and incompatible materials.
Precautions	Avoid contact with skin and eyes. Do not breathe vapors or spray. Use with adequate ventilation. Do not ingest. If ingested, seek immediate medical attention.
Spill or leak	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Wash spill area with soap and water.
Protective Clothing	Splash goggles, lab coat, vapor respirator, gloves.

## SECTION VIII FIRST AID MEASURES

Specific first aid measures	Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.
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## SECTION IX PREPARATION OF THE MSDS

Rev. No. 3    Date December 1, 2005    Approved Michael Raszeja