

SIGMA-ALDRICH -- M9015, MALACHITE GREEN OXALATE, CERTIFIED -- 6910-01-188-9759
===== Product Identification =====

Product ID:M9015, MALACHITE GREEN OXALATE, CERTIFIED
MSDS Date:07/13/1999
FSC:6910
NIIN:01-188-9759
Status Code:A
MSDS Number: CLDSZ
=== Responsible Party ===
Company Name:SIGMA-ALDRICH
Box:14508
City:ST LOUIS
State:MO
ZIP:63178
Country:US
Info Phone Num:314-771-5765
Emergency Phone Num:314-771-5765
CAGE:JO751
=== Contractor Identification ===
Company Name:SIGMA-ALDRICH COMPANY
Box:14508
City:ST LOUIS
State:MO
ZIP:63178
Country:US
Phone:314-771-5765
CAGE:JO751

===== Composition/Information on Ingredients =====

Ingred Name:MALACHITE GREEN OXALATE
CAS:2437-29-8
RTECS #:BQ1190000

===== Hazards Identification =====

LD50 LC50 Mixture:LD50: ORAL (RAT)= 275 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports

of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: HARMFUL IF SWALLOWED. MAY BE HARMFUL IF INHALED. MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN. CAUSES SEVERE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT. TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

Explanation of Carcinogenicity:NOT PROVIDED BY MFR

Effects of Overexposure:NOT PROVIDED BY MFR

Medical Cond Aggravated by Exposure:NOT PROVIDED BY MFR

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===== First Aid Measures =====

First Aid:IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IN INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS. CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE .

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===== Fire Fighting Measures =====

Flash Point:NOT PROVIDED BY

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL POWDER, WATER SPRAY

Fire Fighting Procedures:WEAR SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

Unusual Fire/Explosion Hazard:EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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===== Accidental Release Measures =====

Spill Release Procedures:WEAR SELF CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES. SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL. AVOID RAISING DUST. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

Neutralizing Agent:NOT PROVIDED BY MFR

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===== Handling and Storage =====

Handling and Storage Precautions:DO NOT BREATHE DUST. DO NOT GET IN

EYES, ON SKIN, ON CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING. TOXIC. SEVERE EYE IRRITANT. KEEP
TIGHTLY CLOSED. STORE IN A COOL DRY PLACE.

Other Precautions:NOT PROVIDED BY MFR

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR

Ventilation:USE ONLY IN A CHEMICAL FUME HOOD

Protective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:SAFETY GOGGLES

Other Protective Eq

uipment:OTHER PROTECTIVE CLOTHING. SAFETY SHOWER AND
EYE BATH.

Work Hygienic Practices:NOT PROVIDED BY MFR

Supplemental Safety and Health

NOT PROVIDED BY MFR

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===== Physical/Chemical Properties =====

HCC:T6

Boiling Pt:=164.C, 327.2F

Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED BY MFR

Decomp Temp:Decomp Text:NOT PROVIDED BY MFR

Vapor Pres:NOT PROVIDED BY MFR

Vapor Density:NOT PROVID

Spec Gravity:NOT PROVIDED BY MFR

pH:NOT PROVIDED

Viscosity:NOT PROVIDED BY MFR

Evapora

tion Rate & Reference:NOT PROVIDED BY MFR

Solubility in Water:NOT PROVIDED BY MFR

Appearance and Odor:GREEN CRYSTALLINE POWDER

Percent Volatiles by Volume:NOT PROVIDED

Corrosion Rate:NOT PROVIDED BY MFR

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:NOT PROVIDED BY MFR

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,
NITROGEN OXIDES

Conditions to Avoid P

olymerization:WILL NOT OCCUR

===== Toxicological Information =====

Toxicological Information:IRRITATION DATA: EYE-RBT 76 MG/KG SEV.
TARGET ORGAN DATA: BEHAVIORAL (CHANGE IN MOTOR ACTIVITY),
GASTROINTESTINAL (HYPERMOTILITY, DIARRHEA), GASTROINTESTINAL (OTHER
CHANGES). ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL
SUBSTANCES (RTECS) DATA IS PRESENTED HERE.

===== Ecological Information =====

Ecological:DATA
NOT YET AVAILABLE.

===== Disposal Considerations =====

Waste Disposal Methods:DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE
SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN
AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL
ENVIRONMENTAL REGULATIONS.

===== MSDS Transport Information =====

Transport Information:CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION
INFORMATION.

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==== Regulatory Information =====

SARA Title III Information:THIS PRODUCT IS SUBJECT TO SARA SECTION 313
REPORTING REQUIREMENTS.

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