

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME MALACHITE GREEN (3% AQUEOUS)

PRODUCT CODE 62113x / 62913x

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2. HAZARDS IDENTIFICATION

CLASSIFICATION ACCORDING TO REGULATION (EC) No 1272/2008 [EU-GHS/CLP]

Eye Damage (Category 1)	H318
Reproductive Toxicity (Category 2)	H361d
Chronic Aquatic Toxicity (Category 2)	H411
Acute Toxicity (Category 5)	H303

LABELLING ACCORDING TO REGULATION (EC) No 1272/2008 [EU-GHS/CLP]

DANGER



Hazard statement(s)

H318	Causes serious eye damage
H361d	Suspected of damaging fertility or the unborn child
H411	Toxic to aquatic life with long lasting effects
H303	May be harmful if swallowed

Precautionary statement(s)

P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P391	Collect spillage. Hazardous to the aquatic environment

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Classification
MALACHITE GREEN [CI 42000]	209-322-8	569-64-2	5-10%	Carc. 2, Acute Tox. 4, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1 H302 H318 H361d H410
[4-[α -[4-(Dimethylamino)phenyl]benzylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride				

4. FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air. Perform artificial respiration if breathing has stopped. Consult a physician.

INGESTION

Rinse mouth with water. Never make an unconscious person vomit or drink fluids. Consult a physician.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Consult a physician.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Water spray, Alcohol-resistant foam, Dry chemicals, or Carbon dioxide

PROTECTIVE MEASURES IN FIRE

Self-contained breathing apparatus if necessary.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate personnel to a safe area. Avoid aerosol formation. Avoid breathing aerosols. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Stop further spillage if possible without risk.

SPILL CLEAN-UP METHODS

Flush area with water – do not allow water to enter drains. Absorb with disposable towels and hold for hazardous disposal – see section 13.

7. HANDLING & STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid aerosol formation. Provide adequate exhaust function where aerosol is likely.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

STORAGE CLASS

Chemical storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

PROTECTIVE EQUIPMENT



HAND PROTECTION

Use protective gloves. The most suitable glove should be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved, tight-fitting safety glasses where splashing or aerosols are probable.

RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where aerosols are likely.

OTHER PROTECTION

Provide eyewash station.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	(Bluish-)Green Liquid
ODOUR	None
SOLUBILITY / MISCIBLE WITH	Water; Ethanol

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

INCOMPATIBLE MATERIALS

Strong oxidizers.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE (MALACHITE GREEN)

LD 50	Oral, Mouse	96 mg/kg
LD 50	Oral, Rabbit	150 mg/kg
LD 50	Intraperitoneal, Rat	8.9 mg/kg
LD 50	Intraperitoneal, Mouse	5.1 mg/kg

INHALATION

May be harmful if inhaled. May causes respiratory tract irritation.

INGESTION

May be harmful if swallowed.

SKIN CONTACT

May be harmful if absorbed through skin. Causes severe skin burns.

EYE CONTACT

Causes severe eye damage.

12. ECOLOGICAL INFORMATION

<u>TOXIC DOSE</u>	LC50	<i>Lepomis macrochirus</i>	0.0218 mg/L (96 h)
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ECOTOXICITY

Toxic to aquatic life with long lasting effects. Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	3082	9	III	Environmentally Hazardous Substance, Liquid, n.o.s.
<u>IATA</u>	3082	9	III	
<u>IMDG</u>	3082	9	III	

SIGNAGE



ENVIRONMENTAL HAZARDS

RID / ADR	Yes
IATA	Yes
IMDG	Marine Pollutant

15. REGULATORY INFORMATION

STATUTORY INSTRUMENTS

This MSDS complies with regulation (EC) no. 1907/2006.
 Workplace Exposure Limits EH40/2011.

16. OTHER INFORMATION

GENERAL INFORMATION

This safety data sheet covers all codes for this product.

REVISION INFORMATION

Revision No.	04
Revision Date	09/2015
Comments	CHIP regulations removed
Replaces Document Generated	07/2014

HAZARD STATEMENTS IN FULL

H302	Harmful if swallowed
H303	May be harmful if swallowed
H318	Causes serious eye damage
H361d	Suspected of damaging fertility or the unborn child
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects