

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME MALACHITE GREEN [CI 42000]
 (*Basic Green 4, Victoria Green B, Diamond Green Bx*)
 [4-[α -[4-(Dimethylamino)phenyl]benzylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride

PRODUCT CODE 80035x

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2. HAZARDS IDENTIFICATION

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

Carcinogenicity (Category 2)
 Acute Toxicity, Oral (Category 4)
 Serious Eye Damage (Category 1)
 Acute Aquatic Toxicity (Category 1)
 Chronic Aquatic Toxicity (Category 1)

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

DANGER



Hazard statement(s)

H302 Harmful if swallowed
 H318 Causes serious eye damage
 H361d Suspected of damaging the unborn child
 H410 Very toxic to aquatic life with long lasting effects

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
 P501 Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Formula	Molar Mass
MALACHITE GREEN	209-322-8	569-64-2	80-100%	C ₂₃ H ₂₅ ClN ₂	364.91 g/mol

4. FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get prompt medical attention.

INGESTION

Do not induce vomiting. Rinse mouth with water. Never make an unconscious person vomit or drink fluids. Get medical attention immediately.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. If symptoms occur seek medical attention.

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. Continue to rinse for at least 15 minutes. Get medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

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

UNUSUAL FIRE AND EXPLOSION HAZARDS

Forms harmful carbon oxides, nitrogen oxides, or hydrogen chloride on combustion.

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 dust formation. Avoid breathing vapours or dust. 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

Sweep up into bag and hold for hazardous disposal. Avoid raising dust. 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 dust formation. Provide adequate exhaust function where dust is raised.

STORAGE PRECAUTIONS

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

STORAGE CLASS

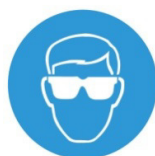
Chemical storage.

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 dust is probable.

RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where high dust levels 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	Dark Green Crystals
ODOUR	None
SOLUBILITY	Water; Ethanol

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

INCOMPATIBLE MATERIALS

Strong oxidizers.

11. TOXICOLOGICAL INFORMATION

<u>TOXIC DOSE</u>	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

GERM CELL MUTAGENICITY

Genotoxicity *in vitro* – Mammal – Lymphocyte – DNA damage

Genotoxicity *in vitro* – Hamster – Embryo – DNA damage

INHALATION

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

INGESTION

Harmful if swallowed.

SKIN CONTACT

May be harmful if absorbed through skin. May cause skin irritation.

EYE CONTACT

Causes eye burns.

12. ECOLOGICAL INFORMATION

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

Very toxic to aquatic life with long-lasting consequences. Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

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14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	2811	6.1	III	Toxic solid, organic, n.o.s.
<u>IATA</u>	2811	6.1	III	Toxic solid, organic, n.o.s.
<u>IMDG</u>	2811	6.1	III	Toxic solid, organic, n.o.s.

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.	3
Revision Date	07/2014
Comments	CHIP regulations removed
Replaces Document Generated	07/2012

HAZARD STATEMENTS IN FULL

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