

## 1 Identification

- **Product identifier**
- **Trade name:** **ELCOZINE MALACHITE GREEN CRUDE LIQUID**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 Greenville Colorants LLC  
 90 Paterson Street  
 New Brunswick, NJ 08901
- **Information department:**  
 Product safety department  
 Tel.: +1 800 526-3192  
 email: [health&safety@greenvillecolorants.com](mailto:health&safety@greenvillecolorants.com)
- **Emergency telephone number:**  
 Call Chemtrec tel: 1 800 424 9300  
 Outside the United States call 703 527 3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

Flam. Liq. 4 H227 Combustible liquid.

- **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05



GHS07

- **Signal word** *Danger*

- **Hazard-determining components of labeling:**

Basic Green Dye

Acetic acid

hydrogen chloride

DEG (Diethylene Glycol)

- **Hazard statements**

Combustible liquid.

Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

**Trade name: ELCOZINE MALACHITE GREEN CRUDE LIQUID**

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**· Precautionary statements**

Keep away from flames and hot surfaces. – No smoking.

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

**IF SWALLOWED:** Call a POISON CENTER/doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Classification system:**
**· NFPA ratings (scale 0 - 4)**


Health = 3

Fire = 2

Reactivity = 0

**· HMIS-ratings (scale 0 - 4)**


Health = 4

Fire = 2

Reactivity = 0

**· Other hazards**
**· Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

**3 Composition/information on ingredients**
**· Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

**· Dangerous components:**

	Basic Green Dye	50-100%
64-19-7	Acetic acid	25-50%
111-46-6	DEG (Diethylene Glycol)	2.5-<10%
7647-01-0	hydrogen chloride	2.5-<10%

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**4 First-aid measures**

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**  
Immediately call a doctor.  
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.  
Should be equipped with self contained breathing apparatus and protective clothing.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Wear appropriate safety equipment.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Use neutralizing agent.  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.  
Wear appropriate safety equipment.  
Contain and clean up spill immediately.  
Prevent from entering floor drains.  
Sweep powders carefully minimizing dusting.  
Shovel all spill materials into disposal drums and follow disposal instructions.  
Scrub spill area with detergent and flush with copious amount of water.

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- **Reference to other sections**  
 See Section 7 for information on safe handling.  
 See Section 8 for information on personal protection equipment.  
 See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

64-19-7	Acetic acid	5 ppm
111-46-6	DEG (Diethylene Glycol)	6.9 ppm
7440-62-2	vanadium	3 mg/m <sup>3</sup>
7439-98-7	molybdenum	30 mg/m <sup>3</sup>

- **PAC-2:**

64-19-7	Acetic acid	35 ppm
111-46-6	DEG (Diethylene Glycol)	140 ppm
7440-62-2	vanadium	5.8 mg/m <sup>3</sup>
7439-98-7	molybdenum	330 mg/m <sup>3</sup>

- **PAC-3:**

64-19-7	Acetic acid	250 ppm
111-46-6	DEG (Diethylene Glycol)	860 ppm
7440-62-2	vanadium	35 mg/m <sup>3</sup>
7439-98-7	molybdenum	2,000 mg/m <sup>3</sup>

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 In accordance with good industrial practices, handle with care and avoid personal contact.  
 Containers should be triple rinsed according to federal regulations and/or good waste management practices.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities** Keep containers closed when not in use.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
 The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
 At this time, the remaining constituent has no known exposure limits.

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**64-19-7 Acetic acid**

 PEL Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

 REL Short-term value: 37 mg/m<sup>3</sup>, 15 ppm  
 Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

 TLV Short-term value: 37 mg/m<sup>3</sup>, 15 ppm  
 Long-term value: 25 mg/m<sup>3</sup>, 10 ppm

**111-46-6 DEG (Diethylene Glycol)**

 WEEL Long-term value: 10 mg/m<sup>3</sup>
**7647-01-0 hydrogen chloride**

 PEL Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm

 REL Ceiling limit value: 7 mg/m<sup>3</sup>, 5 ppm

 TLV Ceiling limit value: 2.98 mg/m<sup>3</sup>, 2 ppm

**· Exposure controls**
**· Personal protective equipment:**
**· General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**· Breathing equipment:**

Use proper ventilation. In case of poor ventilation use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

If exposure to dust is likely, a NIOSH approved dust respirator is recommended.

**· Protection of hands:**


Protective gloves

**· Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**· Eye protection:**

Always wear safety glasses.



Tightly sealed goggles

**· Body protection:**
**· Light weight protective clothing** Wear apron, coveralls, boots and long sleeve shirt to prevent skin contact.

**· Limitation and supervision of exposure into the environment**

Eyewash fountains should be easily accessible.

Shower after handling this product.

Workclothes should be washed before reuse.

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Before eating, drinking or smoking, wash hands and face with soap and water.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· <b>Form:</b>	Liquid
· <b>Color:</b>	Dark green
· <b>Odor:</b>	Acidic
· <b>Odor threshold:</b>	Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· <b>Melting point/Melting range:</b>	Undetermined.
· <b>Boiling point/Boiling range:</b>	-85 °C (-121 °F)

· **Flash point:** >55 °C (>131 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 225 °C (437 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

· <b>Lower:</b>	4.0 Vol %
· <b>Upper:</b>	17.0 Vol %

· **Vapor pressure at 20 °C (68 °F):** 16 hPa (12 mm Hg)

· **Density:** Not determined.

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

· **Dynamic:** Not determined.

· **Kinematic:** Not determined.

· **Solvent content:**

· <b>Organic solvents:</b>	43.0 %
· <b>Water:</b>	3.0 %
· <b>VOC Content:</b>	430.0 g/l / 3.59 lb/gal

· **Solids content:** 58.9 %

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**· Other information**
*No further relevant information available.*
**10 Stability and reactivity**

- **Reactivity** *No further relevant information available.*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *Burning will produce oxides of carbon, nitrogen and sulfur.*

**11 Toxicological information**
**· Information on toxicological effects**
**· Acute toxicity:**
**· LD/LC50 values that are relevant for classification:**

Oral	LD50	5800 mg/kg (mouse)
<b>Basic Green Dye</b>		
Oral	LD50	575 mg/kg (rat)
<b>64-19-7 Acetic acid</b>		
Oral	LD50	3310 mg/kg (rat)
Dermal	LD50	1060 mg/kg (rabbit)
<b>7647-01-0 hydrogen chloride</b>		
Oral	LD50	900 mg/kg (rabbit)
<b>118-75-2 tetrachloro-p-benzoquinone</b>		
Oral	LD50	4000 mg/kg (rat)

**· Primary irritant effect:**
**· on the skin:** *Strong caustic effect on skin and mucous membranes.*
**· on the eye:**
*Strong caustic effect.*
*Strong irritant with the danger of severe eye injury.*
**· Sensitization:** *No sensitizing effects known.*
**· Additional toxicological information:**
*The product shows the following dangers according to internally approved calculation methods for preparations:*
*Harmful*
*Corrosive*
*Irritant*
*Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.*
**· Carcinogenic categories**
**· IARC (International Agency for Research on Cancer)**

7647-01-0	hydrogen chloride	3
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**· NTP (National Toxicology Program)**
*None of the ingredients is listed.*

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 · **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

 · **Toxicity**

 · **Aquatic toxicity:**

Oral	LC100/24h	10 mg/l (Rainbow Trout)
Inhalative	LC50/48h	330-1000 mg/l (Cockle)
		100-330 mg/l (Starfish)
		100-330 mg/l (Shrimp)

**Basic Green Dye**

Inhalative	LC50/96h	0.03 mg/l (Blue Gill ( <i>Lepomis macrochirus</i> ))
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**64-19-7 Acetic acid**

Inhalative	LC50/1h	5620 mg/l (mouse)
	LC50/24h	423 mg/l (Goldfish ( <i>Carassius auratus</i> ))
	LC50/96h	75 mg/l (Blue Gill ( <i>Lepomis macrochirus</i> ))
		100 mg/l ( <i>daphnia magna</i> )
		88 mg/l (Fathead Minnow ( <i>Pimephales promelas</i> ))

**118-75-2 tetrachloro-p-benzoquinone**

Inhalative	LC50/96h	4.6 mg/l (Fish, freshwater ( <i>Leuciscus idus</i> ))
	EC50/24h	<0.36 mg/l ( <i>daphnia magna</i> )

 · **Persistence and degradability** No further relevant information available.

 · **Behavior in environmental systems:**

 · **Bioaccumulative potential** No further relevant information available.

 · **Mobility in soil** No further relevant information available.

 · **Additional ecological information:**

 · **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

 · **Results of PBT and vPvB assessment**

 · **PBT:** Not applicable.

 · **vPvB:** Not applicable.

 · **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

 · **Waste treatment methods**

 · **Recommendation:**

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

 · **Uncleaned packagings:**

Containers should be triple rinsed according to Federal Regulations and/or good waste management practice.

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- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

· <b>UN-Number</b> · <b>DOT, IMDG, IATA</b>	UN2801
· <b>UN proper shipping name</b> · <b>DOT</b> · <b>IMDG, IATA</b>	Dyes, liquid, corrosive, n.o.s. (Acetic acid, glacial, Hydrochloric acid) DYE, LIQUID, CORROSIVE, N.O.S. (ACETIC ACID, GLACIAL, HYDROCHLORIC ACID)
· <b>Transport hazard class(es)</b> · <b>DOT</b>	
	
· <b>Class</b> · <b>Label</b>	8 Corrosive substances 8
· <b>IMDG, IATA</b>	
	
· <b>Class</b> · <b>Label</b>	8 Corrosive substances 8
· <b>Packing group</b> · <b>DOT, IMDG, IATA</b>	III
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b>	Warning: Corrosive substances 80 F-A,S-B Acids A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b> · <b>DOT</b> · <b>Quantity limitations</b>	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L

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· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 2801 DYES, LIQUID, CORROSIVE, N.O.S. (ACETIC ACID, GLACIAL, HYDROCHLORIC ACID), 8, III

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

7440-62-2 | vanadium

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

7647-01-0 | hydrogen chloride

A4

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS05    GHS07

- **Signal word** Danger

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**· Hazard-determining components of labeling:**

Basic Green Dye  
Acetic acid  
hydrogen chloride  
DEG (Diethylene Glycol)

**· Hazard statements**

Combustible liquid.  
Harmful if swallowed or if inhaled.  
Causes severe skin burns and eye damage.

**· Precautionary statements**

Keep away from flames and hot surfaces. – No smoking.  
Do not breathe dusts or mists.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Specific treatment (see on this label).  
Wash contaminated clothing before reuse.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

**· National regulations:****· Other regulations, limitations and prohibitive regulations**

This product is included in the PRE 1958 list of colorants approved for use in paper and paperboard that comes in contact with food. It is in chemical compliance with the following codes of federal regulations:

1. 21 CFR 176.170 (Components of paper and paperboard in contact with aqueous and fatty food)
2. 21 CFR 176.180 (Components of paper and paperboard in contact with dry food)

**· State - Right to know**

None of the ingredients is listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information****Disclaimer:**

Greenville Colorants L.L.C. believes all the information and data given is accurate as of the date of preparation and is offered in good faith.

This information is given without warranty or representation solely for your consideration, investigation and verification. Since conditions of use is beyond our control, Greenville Colorants L.L.C. expressly disclaims all liability for the use or handling of this product.

· **Department issuing SDS:** Environment protection department.

· **Contact:** Mr. Larry Rosen

· **Date of preparation / last revision** 05/17/2017 / -

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**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

*OSHA: Occupational Safety & Health*

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Flam. Liq. 4: Flammable liquids – Category 4*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Corr. 1A: Skin corrosion/irritation – Category 1A*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*