## Malachite green, 5 g

Product code: 9991588
SECTION 1: Identification of the substance/mixture and of the company/undertaking

```
1.1. Product identifier
            Malachite green, 5 g
```

CAS No:
Index No:
EC No:

569-64-2
602-096-00-5
209-322-8

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture
Laboratory chemicals
1.3. Details of the supplier of the safety data sheet

Seller
Company name: CONATEX-DIDACTIC Lehrmittel GmbH
Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com
Supplier
Company name: Carbolution Chemicals GmbH
Street: Im Stadtwald, Gebäude A1.2
Place: D-66123 Saarbrücken
Contact person:
Dr. Michael Bauer
Telephone: +49 (0)681 302-71232
e-mail: michael.bauer@carbolution-chemicals.de
Internet: www.carbolution-chemicals.de
1.4. Emergency telephone $\quad+49$ (0)681 302-71232
number:

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC
Indications of danger: R3-Repr. Cat. 3, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R phrases:
Harmful if swallowed.
Risk of serious damage to eyes.
Possible risk of harm to the unborn child.
Very toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hazard categories:
Reproductive toxicity: Repr. 2
Acute toxicity: Acute Tox. 4
Serious eye damage/eye irritation: Eye Dam. 1
Hazardous to the aquatic environment: Aquatic Acute 1 ( M -Factor $=1$ )
Hazardous to the aquatic environment: Aquatic Chronic 1 ( M -Factor = 1)
Hazard Statements:
Suspected of damaging the unborn child.
Harmful if swallowed.
Causes serious eye damage.
Very toxic to aquatic life.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Malachite green, 5 g <br> Product code: 9991588

Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

Hazardous components which must be listed on the label
malachite green hydrochloride
malachite green hydrochloride
Signal word:
Pictograms:
GHS05-GHS07-GHS08-GHS09

+

Hazard statements

H302
H318 Harmful if swallowed
H361d
H410

## Precautionary statements

Avoid release to the environment.
P280
Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338
P310 present and easy to do. Continue rinsing.

P501

Causes serious eye damage.
Suspected of damaging the unborn child.
Very toxic to aquatic life with long lasting effects.

## acording to Regulation (EC) No $1907 / 2006$

> Danger


## After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.
After ingestion
Rinse mouth immediately and drink plenty of water. Medical treatment necessary.
4.3. Indication of any immediate medical attention and special treatment needed No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media
Co-ordinate fire-fighting measures to the fire surroundings.
5.2. Special hazards arising from the substance or mixture

The product itself does not burn.
5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.
Additional information
Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.
6.2. Environmental precautions

Do not allow to enter into surface water or drains.
6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.
Advice on protection against fire and explosion
Only use the material in places where open light, fire and other flammable sources can be kept away.

### 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.2. Exposure controls

Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

## Safety Data Sheet

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## Malachite green, 5 g

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## Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.
Eye/face protection
Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection
Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374
Skin protection
Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.
Respiratory protection
With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

## SECTION 9: Physical and chemical properties

\subsection*{9.1. Information on basic physical and chemical properties <br> | Physical state: | solid |
| :--- | :--- |
| Colour: | green |
| Odour: | No data available |}


| pH-Value: | Test method |
| :--- | :--- |
| Changes in the physical state | No data available |
| Initial boiling point and boiling range: | No data available |
| Sublimation point: | No data available |
| Softening point: | No data available |
| Flash point: | No data available |
| Flammability |  |
| $\quad$ Solid: | No data available |
| $\quad$ Gas: | No data available |
| Lower explosion limits: | No data available |
| Upper explosion limits: | No data available |
| Ignition temperature: | No data available |
| Auto-ignition temperature |  |
| Solid: | No data available |
| Gas: | No data available |
| Vapour pressure: | No data available |
| Vapour pressure: | No data available |
| Density: | No data available |
| Water solubility: | No data available |
| Partition coefficient: | Vo data available |
| Viscosity / dynamic: | No data available |
| Viscosity / kinematic: | No data available |
| Flow time: |  |

## Safety Data Sheet

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| Malachite green, $5 \mathbf{g}$ |  |  |
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| Vapour density: | No data available |  |
| Evaporation rate: | No data available |  |
| Solvent separation test: | No data available |  |
| Solvent content: | No data available |  |
| 9.2. Other information |  |  |
| Solid content: | No data available |  |
| SECTION 10: Stability and reactivity |  |  |
| 10.1. Reactivity |  |  |
| No data available |  |  |
| 10.3. Possibility of hazardous reactions |  |  |
| No data available |  |  |
| 10.4. Conditions to avoid |  |  |
| No data available |  |  |
| 10.5. Incompatible materials |  |  |
| Oxidizing agents, strong. |  |  |
| 10.6. Hazardous decomposition products |  |  |
| No data available |  |  |
| SECTION 11: Toxicological information |  |  |

### 11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution
Toxicological data are not available.
Acute toxicity
Acute toxicity, dermal.

| CAS No | Chemical name |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
|  | Exposure routes | Method $\quad$ Dose | Species | Source |  |  |
| $569-64-2$ | malachite green hydrochloride |  |  |  |  |  |
|  | oral | ATE | $500 \mathrm{mg} / \mathrm{kg}$ |  |  |  |

Irritation and corrosivity
Irritating to eyes. Risk of serious damage to eyes.
Sensitising effects
No data available
Severe effects after repeated or prolonged exposure
No data available
Carcinogenic/mutagenic/toxic effects for reproduction
May damage the unborn child.
Specific effects in experiment on an animal
No data available
Additional information on tests
The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## Practical experience

according to Regulation (EC) No 1907/2006

Observations relevant to classification
No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degradability

No data available
12.3. Bioaccumulative potential

No data available
12.4. Mobility in soil

No data available
12.5. Results of PBT and $v$ PvB assessment

No data available
12.6. Other adverse effects

No data available
Further information
Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

## Advice on disposal

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.
Waste disposal number of waste from residues/unused products
160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.
Waste disposal number of used product
160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
Classified as hazardous waste.
Waste disposal number of contaminated packaging
150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging
Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

## Land transport (ADR/RID)

14.1. UN number:
14.2. UN proper shipping name:
14.3. Transport hazard class(es):

## UN2811

TOXIC SOLID, ORGANIC, N.O.S.
6.1

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| :---: | :---: | :---: |
| 14.4. Packing group: | III |  |
| Hazard label: | 6.1 |  |
| Classification code: | T2 |  |
| Special Provisions: | 274614 |  |
| Limited quantity: | 5 kg |  |
| Transport category: | 2 |  |
| Hazard No: | 60 |  |
| Tunnel restriction code: | E |  |
| Other applicable information (land transport) |  |  |
| Inland waterways transport (ADN) |  |  |
| 14.1. UN number: | UN2811 |  |
| 14.2. UN proper shipping name: | TOXIC SOLID, ORGANIC, N.O.S. |  |
| 14.3. Transport hazard class(es): | 6.1 |  |
| 14.4. Packing group: | III |  |
| Hazard label: | 6.1 |  |
| Classification code: | T2 |  |
| Special Provisions: | 274614802 |  |
| Limited quantity: | 5 kg |  |
| Other applicable information (inland waterways transport) E1 |  |  |
| Marine transport (IMDG) |  |  |
| 14.1. UN number: | UN2811 |  |
| 14.2. UN proper shipping name: | TOXIC SOLID, ORGANIC, N.O.S. |  |
| 14.3. Transport hazard class(es): | 6.1 |  |
| 14.4. Packing group: | III |  |
| Hazard label: | 6.1 |  |
| Special Provisions: | 223, 274 |  |
| Limited quantity: | $5 \mathrm{~kg}$ |  |
| EmS: | F-A, S-A |  |
| Other applicable information (marine transport) |  |  |
| Air transport (ICAO) |  |  |
| 14.1. UN number: | UN2811 |  |
| 14.2. UN proper shipping name: | TOXIC SOLID, ORGANIC, N.O.S. |  |
| 14.3. Transport hazard class(es): | 6.1 |  |
| 14.4. Packing group: | III |  |
| Hazard label: | 6.1 |  |
| Special Provisions: | A3 A5 |  |
| Limited quantity Passenger: | 10 kg |  |
| IATA-packing instructions - Passenger: | 670 |  |
| IATA-max. quantity - Passenger: | 100 kg |  |
| IATA-packing instructions - Cargo: | 677 |  |
| IATA-max. quantity - Cargo: | 200 kg |  |
| Other applicable information (air trans $\begin{aligned} & \text { E1 } \\ & \text { : Y645 } \end{aligned}$ |  |  |

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:
yes

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## EU regulatory information

## Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
National regulatory information
Water contaminating class (D): 3 - highly water contaminating

## SECTION 16: Other information

Relevant R-phrases (Number and full text)
22 Harmful if swallowed.
41 Risk of serious damage to eyes.
50 Very toxic to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.
63 Possible risk of harm to the unborn child.
Relevant H - and EUH-phrases (Number and full text)
H302 Harmful if swallowed.

H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

