

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

1 Identification

- **Product identifier**
- **Trade name:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)
- **Article number:** 18700
- **CAS Number:**
7114-03-6
- **EC number:**
230-415-4
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.



GHS05 Corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05



GHS06

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Methyl Green, zinc chloride salt
- **Hazard statements**
Toxic if swallowed.
Causes severe skin burns and eye damage.

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 1)

· **Precautionary statements**

- Do not breathe dusts or mists.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves / eye protection / face protection.
- If swallowed: Immediately call a poison center/doctor.
- Specific treatment (see on this label).
- 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.
- Wash contaminated clothing before reuse.
- 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 = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *3
Fire = 0
Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

7114-03-6 Methyl Green, zinc chloride salt

· **Identification number(s)**

· **EC number:** 230-415-4

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:** 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:**

Do not induce vomiting; immediately call for medical help.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 2)

- **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:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Thorough dedusting.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **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.

US

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 3)

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:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **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:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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.
- **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

- **Form:** Solid
- **Color:** Green
- **Odor:** Odorless
- **Odor threshold:** Not determined.

· **pH-value:** Not applicable.

· Change in condition

- **Melting point/Melting range:** 233 °C (451.4 °F)

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 4)

· Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Product is not flammable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
· Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not applicable.
· Kinematic:	Not applicable.
· VOC content:	0.00 %
· Solids content:	100.0 %
· 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:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **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.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 5)

· **Additional toxicological information:**

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)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

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

Substance is not listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **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.

· **Ecotoxicological effects:**

· **Remark:** Very toxic for fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **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:**

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

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **DOT, ADR, IMDG, IATA**

UN2923

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 6)

· **UN proper shipping name**
 · **DOT**
 · **ADR**
 · **IMDG**
 · **IATA**

Corrosive solids, toxic, n.o.s. (Methyl Green, zinc chloride salt)
 2923 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), ENVIRONMENTALLY HAZARDOUS
 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT
 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt)

· **Transport hazard class(es)**· **DOT**· **Class**

8 Corrosive substances

· **Label**

8, 6.1

· **ADR**· **Class**

8 Corrosive substances

· **Label**

8+6.1

· **IMDG**· **Class**

8 Corrosive substances

· **Label**

8/6.1

· **IATA**· **Class**

8 Corrosive substances

· **Label**

8 (6.1)

· **Packing group**· **DOT, ADR, IMDG, IATA**

II

· **Environmental hazards:**

Product contains environmentally hazardous substances: Methyl Green, zinc chloride salt

· **Marine pollutant:**

Yes (DOT)

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Corrosive substances

· **Hazard identification number (Kemler code):**

86

· **EMS Number:**

F-A,S-B

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 7)

· Stowage Category	B
· Stowage Code	SW2 Clear of living quarters.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 15 kg On cargo aircraft only: 50 kg
· Remarks:	Special marking with the symbol (fish and tree).
· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· IMDG	
· Limited quantities (LQ)	1 kg
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 2923 CORROSIVE SOLID, TOXIC, N.O.S. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· Sara

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

Substance is not listed.

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

Substance is not listed.

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

Substance is not listed.

· **Hazardous Air Pollutants**

Substance is not listed.

· **Proposition 65**· **Chemicals known to cause cancer:**

Substance is not listed.

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

Substance is not listed.

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

Substance is not listed.

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

Substance is not listed.

(Contd. on page 9)

US

Safety Data Sheet

acc. to OSHA HCS

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Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 8)

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

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

Substance is not listed.

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

Substance is not listed.

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

· **Hazard pictograms**



GHS05 GHS06

· **Signal word** *Danger*

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

Methyl Green, zinc chloride salt

· **Hazard statements**

Toxic if swallowed.

Causes severe skin burns and eye damage.

· **Precautionary statements**

Do not breathe dusts or mists.

Wash thoroughly after handling.

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

Wear protective gloves / eye protection / face protection.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

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.

Wash contaminated clothing before reuse.

Store locked up.

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

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 04/02/2021 / -

· **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

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

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 9)

*NFPA: National Fire Protection Association (USA)**HMIS: Hazardous Materials Identification System (USA)**VOC: Volatile Organic Compounds (USA, EU)**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******Acute Tox. 3: Acute toxicity – Category 3******Skin Corr. 1B: Skin corrosion/irritation – Category 1B******Eye Dam. 1: Serious eye damage/eye irritation – Category 1***

US

Safety Data Sheet

according to WHS Regulations

Printing date 02.04.2021

Revision: 02.04.2021

1 Identification

- **Product identifier**
- **Trade name:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)
- **Article number:** 18700
- **CAS Number:**
7114-03-6
- **EC number:**
230-415-4
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- ProSciTech Pty Ltd
11 Carlton Street, Kirwan QLD 4817 Australia
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)
Website: ems.proscitech.com
- Emgrid Australia Pty. Ltd.
P.O. Box 118
The Patch VIC 3792
Australia
Tel: 03 9752 1785
Fax: 03 9752 1784
Website: www.emgrid.com.au
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

2 Hazard(s) Identification

- **Classification of the substance or mixture**



GHS06 skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.



GHS05 corrosion

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

Eye Dam. 1 H318 Causes serious eye damage.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 1)

- **Label elements**

- **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS05 GHS06

- **Signal word** *Danger*

- **Hazard-determining components of labelling:**

Methyl Green, zinc chloride salt

- **Hazard statements**

Toxic if swallowed.

Causes severe skin burns and eye damage.

- **Precautionary statements**

Do not breathe dusts or mists.

Wash thoroughly after handling.

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

Wear protective gloves / eye protection / face protection.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Specific treatment (see on this label).

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Wash contaminated clothing before reuse.

Store locked up.

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

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- **Chemical characterisation: Substances**

- **CAS No. Description**

7114-03-6 Methyl Green, zinc chloride salt

- **Identification number(s)**

- **EC number:** 230-415-4

4 First Aid Measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

- **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*

(Contd. on page 3)

Safety Data Sheet according to WHS Regulations

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 2)

- **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:**
Do not induce vomiting; call for medical help immediately.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
- **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:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.

7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** Thorough dedusting.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **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 container tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 3)

- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.

- **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.

- **Respiratory protection:** Not required.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

9 Physical and Chemical Properties

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

- **General Information**

- **Appearance:**

- **Form:** Solid
- **Colour:** Green
- **Odour:** Odourless
- **Odour threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

- **Melting point/freezing point:** 233 °C
- **Initial boiling point and boiling range:** Undetermined.

- **Flash point:** Not applicable.

- **Flammability (solid, gas):** Product is not flammable.

(Contd. on page 5)

Safety Data Sheet according to WHS Regulations

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Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 4)

· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not applicable.
· Kinematic:	Not applicable.
· Solids content:	100.0 %
· 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:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** Strong caustic effect on skin and mucous membranes.
- **Serious eye damage/irritation**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

AU

(Contd. on page 6)

Safety Data Sheet according to WHS Regulations

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 5)

12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
*Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.
 Danger to drinking water if even extremely small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Very toxic for aquatic organisms*
- **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**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· ADG, IMDG, IATA	UN2923
· UN proper shipping name	
· ADG	2923 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), ENVIRONMENTALLY HAZARDOUS
· IMDG	CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT
· IATA	CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt)

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 6)

· **Transport hazard class(es)**· **ADG**· **Class**

8 Corrosive substances.

· **Label**

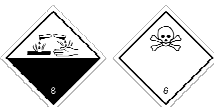
8+6.1

· **IMDG**· **Class**

8 Corrosive substances.

· **Label**

8/6.1

· **IATA**· **Class**

8 Corrosive substances.

· **Label**

8 (6.1)

· **Packing group**· **ADG, IMDG, IATA**

II

· **Environmental hazards:**Product contains environmentally hazardous substances:
Methyl Green, zinc chloride salt· **Marine pollutant:**Yes (DOT)
Symbol (fish and tree)· **Special marking (ADG):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Corrosive substances.

· **Hazard identification number (Kemler code):**

86

· **EMS Number:**

F-A,S-B

· **Stowage Category**

B

· **Stowage Code**

SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADG**· **Limited quantities (LQ)**

1 kg

· **Excepted quantities (EQ)**

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

· **Transport category**

2

· **Tunnel restriction code**

E

(Contd. on page 8)

Safety Data Sheet

according to WHS Regulations

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 7)

<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN 2923 CORROSIVE SOLID, TOXIC, N.O.S. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS</p>

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**

Substance is not listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

Substance is not listed.

· **Australia: Priority Existing Chemicals**

Substance is not listed.

· **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS05 GHS06

· **Signal word** *Danger*

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

Methyl Green, zinc chloride salt

· **Hazard statements**

Toxic if swallowed.

Causes severe skin burns and eye damage.

· **Precautionary statements**

Do not breathe dusts or mists.

Wash thoroughly after handling.

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

Wear protective gloves / eye protection / face protection.

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

Specific treatment (see on this label).

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Wash contaminated clothing before reuse.

Store locked up.

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

(Contd. on page 9)

Safety Data Sheet

according to WHS Regulations

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 8)

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I Substance is not listed.**
- **Seveso category E1 Hazardous to the Aquatic Environment**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t**
- **Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t**
- **Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **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

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - oral – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

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

AU

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

1 Identification

- **Product identifier**
- **Trade name:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)
- **Article number:** 18700
- **CAS Number:**
7114-03-6
- **EC number:**
230-415-4
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

2 Hazard identification

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Toxicity (Oral) - Category 3 H301 Toxic if swallowed.



GHS05 Corrosion

Skin Corrosion - Category 1B H314 Causes severe skin burns and eye damage.

Serious Eye Damage - Category 1 H318 Causes serious eye damage.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS05



GHS06

- **Signal word** Danger
- **Hazard-determining components of labeling:**
Methyl Green, zinc chloride salt
- **Hazard statements**
Toxic if swallowed.
Causes severe skin burns and eye damage.

(Contd. on page 2)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 1)

· **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

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

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

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

Wash contaminated clothing before reuse.

Store locked up.

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

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

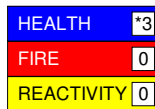


Health = 3

Fire = 0

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *3

Fire = 0

Reactivity = 0

3 Composition/Information on ingredients

· **Chemical characterization: Substances**

· **CAS No. Description**

7114-03-6 Methyl Green, zinc chloride salt

· **Identification number(s)**

· **EC number:** 230-415-4

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· **After inhalation:** *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:**

Do not induce vomiting; immediately call for medical help.

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.*

(Contd. on page 3)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Thorough dedusting.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **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:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.

(Contd. on page 4)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 3)

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:** Not required.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

- | | |
|--------------------------|-----------------|
| · Form: | Solid |
| · Color: | Green |
| · Odor: | Odorless |
| · Odor threshold: | Not determined. |

· pH-value:	Not applicable.
--------------------	-----------------

· **Change in condition**

- | | |
|---------------------------------------|---------------|
| · Melting point/Melting range: | 233 °C |
| · Boiling point/Boiling range: | Undetermined. |

· Flash point:	Not applicable.
-----------------------	-----------------

· Flammability (solid, gaseous):	Product is not flammable.
---	---------------------------

· Decomposition temperature:	Not determined.
-------------------------------------	-----------------

· Auto igniting:	Not determined.
-------------------------	-----------------

· Danger of explosion:	Product does not present an explosion hazard.
-------------------------------	---

· **Explosion limits:**

- | | |
|-----------------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

(Contd. on page 5)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 4)

· Vapor pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
· Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not applicable.
· Kinematic:	Not applicable.
· Solids content:	100.0 %
· 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:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **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:**
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)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

CA

(Contd. on page 6)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 5)

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
 Water hazard class 3 (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 Danger to drinking water if even extremely small quantities leak into the ground.
 Also poisonous for fish and plankton in water bodies.
 Very toxic for aquatic organisms
- **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:**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|--|
| <ul style="list-style-type: none"> · UN-Number · DOT/TDG, ADR, IMDG, IATA | <p>UN2923</p> |
| <ul style="list-style-type: none"> · UN proper shipping name · DOT/TDG · ADR · IMDG · IATA | <p>Corrosive solids, toxic, n.o.s. (Methyl Green, zinc chloride salt)
 2923 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), ENVIRONMENTALLY HAZARDOUS
 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT
 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt)</p> |

(Contd. on page 7)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 6)

· **Transport hazard class(es)**· **DOT/TDG (Transport dangerous goods):**· **Class**

8 Corrosive substances

· **Label**

8, 6.1

· **ADR**· **Class**

8 Corrosive substances

· **Label**

8+6.1

· **IMDG**· **Class**

8 Corrosive substances

· **Label**

8/6.1

· **IATA**· **Class**

8 Corrosive substances

· **Label**

8 (6.1)

· **Packing group**· **DOT/TDG, ADR, IMDG, IATA**

II

· **Environmental hazards:**

Product contains environmentally hazardous substances: Methyl Green, zinc chloride salt

· **Marine pollutant:**Yes (DOT)
Symbol (fish and tree)· **Special marking (ADR):**

Symbol (fish and tree)

· **Special precautions for user**

Warning: Corrosive substances

· **Hazard identification number (Kemler code):**

86

· **EMS Number:**

F-A,S-B

· **Stowage Category**

B

· **Stowage Code**

SW2 Clear of living quarters.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

(Contd. on page 8)

CA

Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 7)

· Transport/Additional information:	
· DOT/TDG	
· Quantity limitations	On passenger aircraft/rail: 15 kg On cargo aircraft only: 50 kg
· Remarks:	Special marking with the symbol (fish and tree).

· ADR	
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g

· IMDG	
· Limited quantities (LQ)	1 kg
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN 2923 CORROSIVE SOLID, TOXIC, N.O.S. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· Sara

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

Substance is not listed.

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

Substance is not listed.

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

Substance is not listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

Substance is not listed.

· **Canadian Ingredient Disclosure list (limit 1%)**

Substance is not listed.

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

· **Hazard pictograms**



GHS05 GHS06

· **Signal word** Danger

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

Methyl Green, zinc chloride salt

(Contd. on page 9)

Safety Data Sheet
according to HPR, Schedule 1

Printing date 04/02/2021

Reviewed on 04/02/2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 8)

· **Hazard statements**

Toxic if swallowed.

Causes severe skin burns and eye damage.

· **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

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

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

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.

Wash contaminated clothing before reuse.

Store locked up.

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

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of the latest revision of the safety data sheet** 04/02/2021 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.04.2021

Revision: 02.04.2021

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

- **1.1 Product identifier**
- **Trade name:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)
- **Article number:** 18700
- **CAS Number:**
7114-03-6
- **EC number:**
230-415-4
- **UFI:** KKM1-909V-F002-F3UD
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

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



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 1)

· Hazard pictograms



GHS05 GHS07 GHS09

· Signal word *Danger*

· Hazard-determining components of labelling:

Methyl Green, zinc chloride salt

· Hazard statements

*H302 Harmful if swallowed.**H314 Causes severe skin burns and eye damage.**H410 Very toxic to aquatic life with long lasting effects.*

· Precautionary statements

*P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].**P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.**P310 Immediately call a POISON CENTER/doctor.**P321 Specific treatment (see on this label).**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Chemical characterisation: Substances

· CAS No. Description

7114-03-6 Methyl Green, zinc chloride salt

· Identification number(s)

· EC number: 230-415-4

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

*Immediately remove any clothing soiled by the product.**In case of irregular breathing or respiratory arrest provide artificial respiration.*· **After inhalation:** *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:***Do not induce vomiting; call for medical help immediately.**Drink plenty of water and provide fresh air. Call for a doctor immediately.*· **4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.*

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 2)

- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Thorough dedusting.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **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 container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 3)

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **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.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

- | | |
|---------------------------|-----------------|
| · Form: | Solid |
| · Colour: | Green |
| · Odour: | Odourless |
| · Odour threshold: | Not determined. |

· pH-value:	Not applicable.
--------------------	-----------------

· **Change in condition**

- | | |
|---|---------------|
| · Melting point/freezing point: | 233 °C |
| · Initial boiling point and boiling range: | Undetermined. |

· Flash point:	Not applicable.
-----------------------	-----------------

· Flammability (solid, gas):	Product is not flammable.
-------------------------------------	---------------------------

· Decomposition temperature:	Not determined.
-------------------------------------	-----------------

· Auto-ignition temperature:	Not determined.
-------------------------------------	-----------------

· Explosive properties:	Product does not present an explosion hazard.
--------------------------------	---

· **Explosion limits:**

- | | |
|-----------------|-----------------|
| · Lower: | Not determined. |
| · Upper: | Not determined. |

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 4)

· Vapour pressure:	Not applicable.
· Density:	Not determined.
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not applicable.
· Kinematic:	Not applicable.
· Solids content:	100.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
Harmful if swallowed.
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes severe skin burns and eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

(Contd. on page 6)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)


(Contd. of page 5)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|---|
| · 14.1 UN-Number | UN2923 |
| · ADR, IMDG, IATA | |
| · 14.2 UN proper shipping name | 2923 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), ENVIRONMENTALLY HAZARDOUS |
| · ADR | CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT |
| · IMDG | |
| · IATA | CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt) |
| · 14.3 Transport hazard class(es) | |
| · ADR | |
|  | |
| · Class | 8 Corrosive substances. |

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 6)

· **Label** 8+6.1

· **IMDG**



· **Class** 8 Corrosive substances.

· **Label** 8/6.1

· **IATA**



· **Class** 8 Corrosive substances.

· **Label** 8 (6.1)

· **14.4 Packing group**

· **ADR, IMDG, IATA** II

· **14.5 Environmental hazards:** Product contains environmentally hazardous substances:
Methyl Green, zinc chloride salt

· **Marine pollutant:** Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Corrosive substances.

· **Hazard identification number (Kemler code):** 86

· **EMS Number:** F-A,S-B

· **Stowage Category** B

· **Stowage Code** SW2 Clear of living quarters.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 1 kg

· **Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

· **Transport category** 2

· **Tunnel restriction code** E

· **IMDG**

· **Limited quantities (LQ)** 1 kg

· **Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

· **UN "Model Regulation":** UN 2923 CORROSIVE SOLID, TOXIC, N.O.S. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS

GB

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.04.2021

Revision: 02.04.2021

Trade name: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Contd. of page 7)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I Substance is not listed.**
- **Seveso category E1 Hazardous to the Aquatic Environment**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t**
- **Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t**
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**
- **Substance is not listed.**
- **15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **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*
- IATA: International Air Transport Association*
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals*
- EINECS: European Inventory of Existing Commercial Chemical Substances*
- CAS: Chemical Abstracts Service (division of the American Chemical Society)*
- PBT: Persistent, Bioaccumulative and Toxic*
- vPvB: very Persistent and very Bioaccumulative*
- Acute Tox. 4: Acute toxicity - oral – Category 4*
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B*
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1*
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

GB

Veiligheidsinformatieblad volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

· 1.1 Productidentificatie

· **Handelsnaam:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

· **Artikelnummer:** 18700

· **CAS-nummer:**

7114-03-6

· **EC-nummer:**

230-415-4

· **UFI:** KKM1-909V-F002-F3UD

· **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**

Geen verdere relevante informatie verkrijgbaar.

· **Toepassing van de stof / van de bereiding** *Laboratoriumchemicaliën*

· **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**

· **Fabrikant/leverancier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Aurion

Binnenhaven 5

6709 PD Wageningen

The Netherlands

Tel: 31 317 415094

Fax: 31 317 415955

email: info@aurion.nl

· **Inlichtingengevende sector:** *Product safety department*

· **1.4 Telefoonnummer voor noodgevallen:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

RUBRIEK 2: Identificatie van de gevaren

· **2.1 Indeling van de stof of het mengsel**

· **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS05 corrosie

Skin Corr. 1B

H314 Veroorzaakt ernstige brandwonden en oogletsel.



GHS09 milieu

Aquatic Acute 1

H400 Zeer giftig voor in het water levende organismen.

Aquatic Chronic 1

H410 Zeer giftig voor in het water levende organismen, met langdurige gevolgen.



GHS07

Acute Tox. 4

H302 Schadelijk bij inslikken.

(Vervolg op blz. 2)

Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

Handelsnaam: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Vervolg van blz. 1)

- **2.2 Etiketteringselementen**
- **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008**
De stof/product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.
- **Gevarenpictogrammen**



GHS05 GHS07 GHS09

- **Signaalwoord** Gevaar
- **Gevaaraanduidende componenten voor de etikettering:**
Methyl Green, zinc chloride salt
- **Gevenaanduidingen**
H302 Schadelijk bij inslikken.
H314 Veroorzaakt ernstige brandwonden en oogletsel.
H410 Zeer giftig voor in het water levende organismen, met langdurige gevolgen.
- **Veiligheidsaanbevelingen**
P303+P361+P353 **BIJ CONTACT MET DE HUID (of het haar):** verontreinigde kleding onmiddellijk uittrekken.
Huid met water afspoelen [of afdouchen].
P305+P351+P338 **BIJ CONTACT MET DE OGEN:** voorzichtig afspoelen met water gedurende een aantal minuten; contactlenzen verwijderen, indien mogelijk; blijven spoelen.
P310 Onmiddellijk een ANTIGIFCENTRUM/arts raadplegen.
P321 Specifieke behandeling vereist (zie op dit etiket).
P405 Achter slot bewaren.
P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.
- **2.3 Andere gevaren**
- **Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.

RUBRIEK 3: Samenstelling en informatie over de bestanddelen

- **3.1 Chemische karakterisering: Stoffen**
- **CAS-Nr. omschrijving**
7114-03-6 Methyl Green, zinc chloride salt
- **Identificatienummer(s)**
- **EC-nummer:** 230-415-4

RUBRIEK 4: Eerstehulpmaatregelen

- **4.1 Beschrijving van de eerstehulpmaatregelen**
- **Algemene informatie:**
Verontreinigde kleding onmiddellijk uittrekken.
Bij onregelmatige ademhaling of ademstilstand kunstmatige ademhaling toepassen.
- **Na het inademen:** Bij bewusteloosheid ligging en vervoer in stabiele zijligging.
- **Na huidcontact:** Onmiddellijk met water en zeep afwassen en goed naspoelen.
- **Na oogcontact:** Ogen met open ooglid een aantal minuten onder stromend water afspoelen en dokter raadplegen.
- **Na inslikken:**
Geen braken teweegbrengen en onmiddellijk medische hulp raadplegen.

(Vervolg op blz. 3)

Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

Handelsnaam: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Vervolg van blz. 2)

- Drink zeer veel water en voer verse lucht aan. Onmiddellijk een dokter waarschuwen.
- **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.
- **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**
Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**
- **Geschikte blusmiddelen:** Brandblusmaatregelen op omgeving afstemmen.
- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**
Geen verdere relevante informatie verkrijgbaar.
- **5.3 Advies voor brandweerlieden**
- **Speciale beschermende kleding:** Geen bijzondere maatregelen nodig.

RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermingsmiddelen en noodprocedures**
Beschermende kleding aantrekken. Niet beschermde personen op afstand houden.
- **6.2 Milieuvoorzorgsmaatregelen:**
Bij indringen in afvalwater of riolering moet de bevoegde instantie gewaarschuwd worden.
Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.
- **6.3 Insluitings- en reinigingsmethoden en -materiaal:**
Neutralisatiemiddel gebruiken.
Besmet materiaal zoals afval volgens punt 13 verwijderen.
Voor voldoende ventilatie zorgen.
- **6.4 Verwijzing naar andere rubrieken**
Informatie inzake veilig gebruik - zie hoofdstuk 7.
Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.
Informatie inzake berging - zie hoofdstuk 13.

RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel** Goed stofvrij maken.
- **Informatie m.b.t. brand- en ontploffingsgevaar:** Geen bijzondere maatregelen noodzakelijk.
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** Geen bijzondere eisen.
- **Informatie m.b.t. gezamenlijke opslag:** Niet noodzakelijk.
- **Verdere inlichtingen over eisen m.b.t. de opslag:** Tanks ondoordringbaar gesloten houden.
- **7.3 Specifiek eindgebruik** Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** Geen aanvullende gegevens. Zie 7.
- **8.1 Controleparameters**
- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:** Vervalt.
- **Aanvullende gegevens:** Als basis dienden lijsten die bij opstelling geldig waren.

(Vervolg op blz. 4)

Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

Handelsnaam: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Vervolg van blz. 3)

- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**
Verwijderd houden van eet- en drinkwaren.
Verontreinigde kleding onmiddellijk uittrekken.
Vóór de pauze en aan het einde van werktijd handen wassen.
Aanraking met de ogen vermijden.
Aanraking met de ogen en de huid vermijden.
- **Ademhalingsbescherming:** Niet noodzakelijk.
- **Handbescherming:**



Veiligheidshandschoenen

- Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.
Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.
Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.
- **Handschoenmateriaal**
De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant.
 - **Doordringingstijd van het handschoenmateriaal**
De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.
 - **Oogbescherming:**



Nauw aansluitende veiligheidsbril

RUBRIEK 9: Fysische en chemische eigenschappen

- **9.1 Informatie over fysische en chemische basiseigenschappen**
- **Algemene gegevens**
- **Voorkomen:**
- **Vorm:** Vast
- **Kleur:** Groen
- **Geur:** Reukloos
- **Geurdrempelwaarde:** Niet bepaald.
- **pH-waarde:** Niet bruikbaar.
- **Toestandsverandering**
- **Smelt-/vriespunt:** 233 °C
- **Beginkookpunt en kooktraject:** Niet bepaald.
- **Vlampunt:** Niet bruikbaar.
- **Ontvlambaarheid (vast, gas):** De stof is niet ontvlambaar.
- **Ontledingstemperatuur:** Niet bepaald.
- **Zelfontbrandingstemperatuur:** Niet bepaald.
- **Ontploffingseigenschappen:** Het produkt is niet ontploffingsgevaarlijk.

(Vervolg op blz. 5)

Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

Handelsnaam: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Vervolg van blz. 4)

· Ontploffingsgrenzen:	
· Onderste:	Niet bepaald.
· Bovenste:	Niet bepaald.
· Dampspanning:	Niet bruikbaar.
· Dichtheid:	Niet bepaald.
· Relatieve dichtheid	Niet bepaald.
· Dampdichtheid	Niet bruikbaar.
· Verdampingssnelheid	Niet bruikbaar.
· Oplosbaarheid in/mengbaarheid met	
· Water:	Niet oplosbaar.
· Verdelingscoëfficiënt: n-octanol/water:	Niet bepaald.
· Viscositeit	
· Dynamisch:	Niet bruikbaar.
· Kinematisch:	Niet bruikbaar.
· Gehalte aan vaste bestanddelen:	100,0 %
· 9.2 Overige informatie	Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 10: Stabiliteit en reactiviteit

- **10.1 Reactiviteit** Geen verdere relevante informatie verkrijgbaar.
- **10.2 Chemische stabiliteit**
- **Thermische afbraak / te vermijden omstandigheden:** Geen afbraak bij gebruik volgens voorschrift.
- **10.3 Mogelijke gevaarlijke reacties** Geen gevaarlijke reacties bekend.
- **10.4 Te vermijden omstandigheden** Geen verdere relevante informatie verkrijgbaar.
- **10.5 Chemisch op elkaar inwerkende materialen:** Geen verdere relevante informatie verkrijgbaar.
- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit**
Schadelijk bij inslikken.
- **Primaire aandoening:**
- **Huidcorrosie/-irritatie**
Veroorzaakt ernstige brandwonden en oogletsel.
- **Ernstig oogletsel/oogirritatie**
Veroorzaakt ernstige brandwonden en oogletsel.
- **Sensibilisatie van de luchtwegen/de huid**
Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Kankerverwekkendheid** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Giftigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

(Vervolg op blz. 6)

Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

Handelsnaam: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Vervolg van blz. 5)

· **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Ecotoxische effecten:**
- **Opmerking:** Zeer giftig voor vissen.
- **Verdere ecologische informatie:**
- **Algemene informatie:**
 Waterbezwaarlijkheid (NL): A(1) zeer vergiftig voor in water levende organismen kan in aquatische milieu op lange termijn schadelijke effecten veroorzaken
 Gevaar voor water klasse 3 (D) (Zelfclassificatie): gevaar voor water groot
 Niet lozen in grondwater, oppervlaktewater of riolering, ook niet in kleine hoeveelheden.
 Mag niet onverdund of niet geneutraliseerd in oppervlaktewater of in afwateringskanaal geloosd worden.
 Gevaar voor drinkwater zelfs bij het uitlopen van zeer geringe hoeveelheden in de ondergrond.
 In oppervlaktewater ook giftig voor vissen en plankton.
 zeer giftig voor in het water levende organismen
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terechtkomen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.

RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.1 VN-nummer**
- **ADR, IMDG, IATA** UN2923
- **14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN**
- **ADR** 2923 BIJTENDE VASTE STOF, GIFTIG, N.E.G. (Methyl Green, zinc chloride salt), MILIEUGEVAARLIJK
- **IMDG** CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT
- **IATA** CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt)

(Vervolg op blz. 7)

Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

Handelsnaam: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Vervolg van blz. 6)

· **14.3 Transportgevarenklasse(n)**

· **ADR**



· **klasse** 8 Bijtende stoffen
 · **Etiket** 8+6.1

· **IMDG**



· **Class** 8 Bijtende stoffen
 · **Label** 8/6.1

· **IATA**



· **Class** 8 Bijtende stoffen
 · **Label** 8 (6.1)

· **14.4 Verpakkingsgroep:**

· **ADR, IMDG, IATA** II

· **14.5 Milieugevaren:**

· **Marine pollutant:** Produkt bevat milieugevaarlijke stoffen: Methyl Green, zinc chloride salt
 · **Bijzondere kenmerking (ADR):** Symbool (vis en boom)

· **14.6 Bijzondere voorzorgen voor de gebruiker** Waarschuwing: Bijtende stoffen
 · **Gevaarsidentificatienummer (Kemler-getal):** 86
 · **EMS-nummer:** F-A,S-B
 · **Stowage Category** B
 · **Stowage Code** SW2 Clear of living quarters.

· **14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code**

Niet bruikbaar.

· **Transport/verdere gegevens:**

· **ADR**

· **Beperkte hoeveelheden (LQ)** 1 kg
 · **Uitzonderde hoeveelheden (EQ)** Code: E2
 Grootste netto hoeveelheid per binnenverpakking: 30 g
 Grootste netto hoeveelheid per buitenverpakking: 500 g
 · **Vervoerscategorie** 2
 · **Tunnelbeperkingscode** E

(Vervolg op blz. 8)

Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

Handelsnaam: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Vervolg van blz. 7)

- | | |
|--|---|
| <ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) | <p>1 kg
Code: E2
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 500 g</p> |
| <ul style="list-style-type: none"> · VN "Model Regulation": | <p>UN 2923 BIJTENDE VASTE STOF, GIFTIG, N.E.G. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, MILIEUGEVAARLIJK</p> |

RUBRIEK 15: Regelgeving

- **15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel**

- **SZW-lijst van kankerverwekkende stoffen**

De stof is niet aanwezig.

- **SZW-lijst van mutagene stoffen**

De stof is niet aanwezig.

- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid**

De stof is niet aanwezig.

- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling**

De stof is niet aanwezig.

- **NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding**

De stof is niet aanwezig.

- **Lijst Zeer Zorgwekkende Stoffen (ZZS)**

De stof is niet aanwezig.

- **Lijst van Potentieel Zeer Zorgwekkende Stoffen**

De stof is niet aanwezig.

- **Richtlijn 2012/18/EU**

- **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** De stof is niet aanwezig.

- **Seveso-categorie E1** Gevaar voor het aquatisch milieu

- **Drempelwaarde (ton) voor toepassing van voorschriften voor lagedrempelinrichtingen** 100 t

- **Drempelwaarde (ton) voor toepassing van voorschriften voor hogedrempelinrichtingen** 200 t

- **Richtlijn 2011/65/EU betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur - Bijlage II**

De stof is niet aanwezig.

- **Nationale voorschriften:**

- **Gevaarklasse v. water:**

Waterbezwaarlijkheid (NL): A(1) zeer vergiftig voor in water levende organismen kan in aquatische milieu op lange termijn schadelijke effecten veroorzaken

- **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

RUBRIEK 16: Overige informatie

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

(Vervolg op blz. 9)

Veiligheidsinformatieblad
volgens 1907/2006/EG, Artikel 31

datum van de druk: 02.04.2021

Herziening van: 02.04.2021

Handelsnaam: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Vervolg van blz. 8)

Afkortingen en acroniemen:

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxiciteit - oraal – Categorie 4

Skin Corr. 1B: Huidcorrosie/irritatie – Categorie 1B

Aquatic Acute 1: Gevaar voor het aquatisch milieu - acuut aquatisch gevaar – Categorie 1

Aquatic Chronic 1: Gevaar voor het aquatisch milieu - aquatisch gevaar op lange termijn – Categorie 1

NL

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.04.2021

Révision: 02.04.2021

RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

- **1.1 Identificateur de produit**
- **Nom du produit:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)
- **Code du produit:** 18700
- **No CAS:**
7114-03-6
- **Numéro CE:**
230-415-4
- **UFI:** KKM1-909V-F002-F3UD
- **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**
Pas d'autres informations importantes disponibles.
- **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires
- **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**
- **Producteur/fournisseur:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- **Service chargé des renseignements:** Product safety department
- **1.4 Numéro d'appel d'urgence:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

RUBRIQUE 2: Identification des dangers

- **2.1 Classification de la substance ou du mélange**
- **Classification selon le règlement (CE) n° 1272/2008**



GHS05 corrosion

Skin Corr. 1B H314 Provoque des brûlures de la peau et de graves lésions des yeux.



GHS09 environnement

Aquatic Acute 1 H400 Très toxique pour les organismes aquatiques.

Aquatic Chronic 1 H410 Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.



GHS07

Acute Tox. 4 H302 Nocif en cas d'ingestion.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** La substance est classifiée et étiquetée selon le règlement CLP.

(suite page 2)

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.04.2021

Révision: 02.04.2021

Nom du produit: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(suite de la page 1)

· **Pictogrammes de danger**



GHS05 GHS07 GHS09

· **Mention d'avertissement Danger**

· **Composants dangereux déterminants pour l'étiquetage:**

Methyl Green, zinc chloride salt

· **Mentions de danger**

H302 Nocif en cas d'ingestion.

H314 Provoque des brûlures de la peau et de graves lésions des yeux.

H410 Très toxique pour les organismes aquatiques, entraîne des effets néfastes à long terme.

· **Conseils de prudence**

P303+P361+P353 **EN CAS DE CONTACT AVEC LA PEAU (ou les cheveux):** Enlever immédiatement tous les vêtements contaminés. Rincer la peau à l'eau [ou se doucher].

P305+P351+P338 **EN CAS DE CONTACT AVEC LES YEUX:** Rincer avec précaution à l'eau pendant plusieurs minutes. Enlever les lentilles de contact si la victime en porte et si elles peuvent être facilement enlevées. Continuer à rincer.

P310 Appeler immédiatement un CENTRE ANTIPOISON/un médecin.

P321 Traitement spécifique (voir sur cette étiquette).

P405 Garder sous clef.

P501 Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/internationale.

· **2.3 Autres dangers**

· **Résultats des évaluations PBT et vPvB**

· **PBT:** Non applicable.

· **vPvB:** Non applicable.

RUBRIQUE 3: Composition/informations sur les composants

· **3.1 Caractérisation chimique: Substances**

· **No CAS Désignation**

7114-03-6 Methyl Green, zinc chloride salt

· **Code(s) d'identification**

· **Numéro CE:** 230-415-4

RUBRIQUE 4: Premiers secours

· **4.1 Description des premiers secours**

· **Remarques générales:**

Enlever immédiatement les vêtements contaminés par le produit.

Respiration artificielle dans le cas d'une respiration irrégulière ou d'un arrêt respiratoire.

· **Après inhalation:** En cas d'inconscience, coucher et transporter la personne en position latérale stable.

· **Après contact avec la peau:** Laver immédiatement à l'eau et au savon et bien rincer.

· **Après contact avec les yeux:**

Rincer les yeux, pendant plusieurs minutes, sous l'eau courante en écartant bien les paupières et consulter un médecin.

· **Après ingestion:**

Ne pas faire vomir, demander d'urgence une assistance médicale.

Boire de l'eau en abondance et donner de l'air frais. Consulter immédiatement un médecin.

(suite page 3)

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.04.2021

Révision: 02.04.2021

Nom du produit: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(suite de la page 2)

- **4.2 Principaux symptômes et effets, aigus et différés** Pas d'autres informations importantes disponibles.
- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**
Pas d'autres informations importantes disponibles.

RUBRIQUE 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:** Adapter les mesures d'extinction d'incendie à l'environnement.
- **5.2 Dangers particuliers résultant de la substance ou du mélange**
Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Aucune mesure particulière n'est requise.

RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence**
Porter un équipement de sécurité. Eloigner les personnes non protégées.
- **6.2 Précautions pour la protection de l'environnement:**
En cas de pénétration dans les eaux ou les égouts, avvertir les autorités compétentes.
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**
Utiliser un neutralisant.
Evacuer les matériaux contaminés en tant que déchets conformément au point 13.
Assurer une aération suffisante.
- **6.4 Référence à d'autres rubriques**
Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.
Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.
Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

RUBRIQUE 7: Manipulation et stockage

- **7.1 Précautions à prendre pour une manipulation sans danger** Bien dépoussiérer.
- **Préventions des incendies et des explosions:** Aucune mesure particulière n'est requise.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
- **Stockage:**
- **Exigences concernant les lieux et conteneurs de stockage:** Aucune exigence particulière.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:** Tenir les emballages hermétiquement fermés.
- **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

- **Indications complémentaires pour l'agencement des installations techniques:**
Sans autre indication, voir point 7.
- **8.1 Paramètres de contrôle**
- **Composants présentant des valeurs-seuil à surveiller par poste de travail:** Néant
- **Remarques supplémentaires:**
Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.

(suite page 4)

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.04.2021

Révision: 02.04.2021

Nom du produit: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(suite de la page 3)

- **8.2 Contrôles de l'exposition**
- **Equipement de protection individuel:**
- **Mesures générales de protection et d'hygiène:**
Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.
Retirer immédiatement les vêtements souillés ou humectés.
Se laver les mains avant les pauses et en fin de travail.
Eviter tout contact avec les yeux.
Eviter tout contact avec les yeux et avec la peau.
- **Protection respiratoire:** N'est pas nécessaire.
- **Protection des mains:**



Gants de protection

- Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.
À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.
Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.
- **Matériau des gants**
Le choix de gants appropriés ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.
 - **Temps de pénétration du matériau des gants**
Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.
 - **Protection des yeux:**



Lunettes de protection hermétiques

RUBRIQUE 9: Propriétés physiques et chimiques

· 9.1 Informations sur les propriétés physiques et chimiques essentielles

· Indications générales

· Aspect:

· Forme:

Solide

· Couleur:

Vert

· Odeur:

Inodore

· Seuil olfactif:

Non déterminé.

· valeur du pH:

Non applicable.

· Changement d'état

· Point de fusion/point de congélation:

233 °C

· Point initial d'ébullition et intervalle d'ébullition: Non déterminé.

· Point d'éclair

Non applicable.

· Inflammabilité (solide, gaz):

La substance n'est pas inflammable.

· Température de décomposition:

Non déterminé.

· Température d'auto-inflammabilité:

Non déterminé.

· Propriétés explosives:

Le produit n'est pas explosif.

(suite page 5)

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.04.2021

Révision: 02.04.2021

Nom du produit: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(suite de la page 4)

· Limites d'explosion:	
· Inférieure:	Non déterminé.
· Supérieure:	Non déterminé.
· Pression de vapeur:	Non applicable.
· Densité:	Non déterminée.
· Densité relative	Non déterminé.
· Densité de vapeur:	Non applicable.
· Taux d'évaporation:	Non applicable.
· Solubilité dans/miscibilité avec l'eau:	Insoluble
· Coefficient de partage: n-octanol/eau:	Non déterminé.
· Viscosité:	
· Dynamique:	Non applicable.
· Cinématique:	Non applicable.
· Teneur en substances solides:	100,0 %
· 9.2 Autres informations	Pas d'autres informations importantes disponibles.

RUBRIQUE 10: Stabilité et réactivité

- **10.1 Réactivité** Pas d'autres informations importantes disponibles.
- **10.2 Stabilité chimique**
- **Décomposition thermique/conditions à éviter:** Pas de décomposition en cas d'usage conforme.
- **10.3 Possibilité de réactions dangereuses** Aucune réaction dangereuse connue.
- **10.4 Conditions à éviter** Pas d'autres informations importantes disponibles.
- **10.5 Matières incompatibles:** Pas d'autres informations importantes disponibles.
- **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

RUBRIQUE 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**
- **Toxicité aiguë**
Nocif en cas d'ingestion.
- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée**
Provoque des brûlures de la peau et de graves lésions des yeux.
- **Lésions oculaires graves/irritation oculaire**
Provoque des brûlures de la peau et de graves lésions des yeux.
- **Sensibilisation respiratoire ou cutanée**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**
- **Mutagénicité sur les cellules germinales**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Cancérogénicité** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité pour la reproduction**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition unique**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

(suite page 6)

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.04.2021

Révision: 02.04.2021

Nom du produit: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(suite de la page 5)

- **Toxicité spécifique pour certains organes cibles - exposition répétée**
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

RUBRIQUE 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Effets écotoxiques:**
- **Remarque:** Très toxique chez les poissons.
- **Autres indications écologiques:**
- **Indications générales:**
Catégorie de pollution des eaux 3 (D) (Classification propre): très polluant
Ne pas laisser pénétrer dans la nappe phréatique, les eaux ou les canalisations, même pas en petite quantité.
Ne doit pas pénétrer à l'état non dilué ou non neutralisé dans les eaux usées ou le collecteur.
Danger pour l'eau potable dès fuite d'une quantité minime dans le sous-sol.
Dans les eaux, également toxique pour les poissons et le plancton.
Très toxique pour organismes aquatiques.
- **12.5 Résultats des évaluations PBT et VPVB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.
- **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

RUBRIQUE 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.
- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.

RUBRIQUE 14: Informations relatives au transport

- | | |
|--|--|
| 14.1 Numéro ONU | UN2923 |
| ADR, IMDG, IATA | |
| 14.2 Désignation officielle de transport de l'ONU | 2923 SOLIDE CORROSIF, TOXIQUE, N.S.A. (Methyl Green, zinc chloride salt), DANGEREUX POUR L'ENVIRONNEMENT |
| ADR | |
| IMDG | CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT |
| IATA | CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt) |

(suite page 7)

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.04.2021

Révision: 02.04.2021

Nom du produit: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(suite de la page 6)

· 14.3 Classe(s) de danger pour le transport

· ADR



· **Classe** 8 Matières corrosives.
 · **Étiquette** 8+6.1

· IMDG



· **Class** 8 Matières corrosives.
 · **Label** 8/6.1

· IATA



· **Class** 8 Matières corrosives.
 · **Label** 8 (6.1)

· 14.4 Groupe d'emballage

· **ADR, IMDG, IATA** II

· 14.5 Dangers pour l'environnement:

· **Marine Pollutant:** Le produit contient matières dangereuses pour l'environnement : Methyl Green, zinc chloride salt
 · **Marquage spécial (ADR):** Signe conventionnel (poisson et arbre)

· 14.6 Précautions particulières à prendre par l'utilisateur

· **Numéro d'identification du danger (Indice Kemler):** Attention: Matières corrosives.
 · **No EMS:** 86
 · **Stowage Category:** F-A,S-B
 · **Stowage Code:** B
 SW2 Clear of living quarters.

· 14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC

Non applicable.

· Indications complémentaires de transport:

· ADR

· **Quantités limitées (LQ)** 1 kg
 · **Quantités exceptées (EQ)** Code: E2
 Quantité maximale nette par emballage intérieur: 30 g
 Quantité maximale nette par emballage extérieur: 500 g
 · **Catégorie de transport** 2
 · **Code de restriction en tunnels** E

(suite page 8)

Fiche de données de sécurité

selon 1907/2006/CE, Article 31

Date d'impression : 02.04.2021

Révision: 02.04.2021

Nom du produit: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(suite de la page 7)

<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g</p>
<ul style="list-style-type: none"> · "Règlement type" de l'ONU: 	<p>UN 2923 SOLIDE CORROSIF, TOXIQUE, N.S.A. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, DANGEREUX POUR L'ENVIRONNEMENT</p>

RUBRIQUE 15: Informations relatives à la réglementation

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
- **Directive 2012/18/UE**
- **Substances dangereuses désignées - ANNEXE I** la substance n'est pas comprise
- **Catégorie SEVESO E1** Danger pour l'environnement aquatique
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil bas** 100 t
- **Quantité seuil (tonnes) pour l'application des exigences relatives au seuil haut** 200 t
- **Directive 2011/65/UE relative à la limitation de l'utilisation de certaines substances dangereuses dans les équipements électriques et électroniques – Annexe II**
la substance n'est pas comprise
- **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

RUBRIQUE 16: Autres informations

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

- **Acronymes et abréviations:**
 ADR: Accord européen sur le transport des marchandises dangereuses par Route
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Acute Tox. 4: Toxicité aiguë - voie orale – Catégorie 4
 Skin Corr. 1B: Corrosion cutanée/irritation cutanée – Catégorie 1B
 Aquatic Acute 1: Dangers pour le milieu aquatique- toxicité aiguë pour le milieu aquatique – Catégorie 1
 Aquatic Chronic 1: Dangers pour le milieu aquatique- toxicité à long terme pour le milieu aquatique – Catégorie 1

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 02.04.2021

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ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

· **1.1 Produktidentifikator**

· **Handelsname:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

· **Artikelnummer:** 18700

· **CAS-Nummer:**

7114-03-6

· **EG-Nummer:**

230-415-4

· **UFI:** KKM1-909V-F002-F3UD

· **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**

Keine weiteren relevanten Informationen verfügbar.

· **Verwendung des Stoffes / des Gemisches** Laborchemikalien

· **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**

· **Hersteller/Lieferant:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Science Services GmbH

Unterhachinger Str. 75

81737 München Germany

Tel: +49(0)89 18 93 668-0

safety@scienceservices.de

Deutschland: +49 (0)89 19240, 24h Giftnotruf Munchen, www.toxinfo.org

Osterreich: +43 1406 43 43, Gesundheit Osterreich GmbH, 24 h

· **Auskunftgebender Bereich:** Product safety department

· **1.4 Notrufnummer:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

ABSCHNITT 2: Mögliche Gefahren

· **2.1 Einstufung des Stoffs oder Gemischs**

· **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS05 Ätzwirkung

Skin Corr. 1B H314 Verursacht schwere Verätzungen der Haut und schwere Augenschäden.



GHS09 Umwelt

Aquatic Acute 1 H400 Sehr giftig für Wasserorganismen.

Aquatic Chronic 1 H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.

(Fortsetzung auf Seite 2)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 02.04.2021

überarbeitet am: 02.04.2021

Handelsname: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Fortsetzung von Seite 1)



GHS07

Acute Tox. 4 H302 Gesundheitsschädlich bei Verschlucken.

- **2.2 Kennzeichnungselemente**
- **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**
Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.
- **Gefahrenpiktogramme**



GHS05 GHS07 GHS09

- **Signalwort Gefahr**
- **Gefahrbestimmende Komponenten zur Etikettierung:**
Methyl Green, zinc chloride salt
- **Gefahrenhinweise**
H302 Gesundheitsschädlich bei Verschlucken.
H314 Verursacht schwere Verätzungen der Haut und schwere Augenschäden.
H410 Sehr giftig für Wasserorganismen mit langfristiger Wirkung.
- **Sicherheitshinweise**
P303+P361+P353 BEI BERÜHRUNG MIT DER HAUT (oder dem Haar): Alle kontaminierten Kleidungsstücke sofort ausziehen. Haut mit Wasser abwaschen [oder duschen].
P305+P351+P338 BEI KONTAKT MIT DEN AUGEN: Einige Minuten lang behutsam mit Wasser spülen. Eventuell vorhandene Kontaktlinsen nach Möglichkeit entfernen. Weiter spülen.
P310 Sofort GIFTINFORMATIONSZENTRUM/Arzt anrufen.
P321 Besondere Behandlung (siehe auf diesem Kennzeichnungsetikett).
P405 Unter Verschluss aufbewahren.
P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.
- **2.3 Sonstige Gefahren**
- **Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.

ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

- **3.1 Chemische Charakterisierung: Stoffe**
- **CAS-Nr. Bezeichnung**
7114-03-6 Methyl Green, zinc chloride salt
- **Identifikationsnummer(n)**
- **EG-Nummer:** 230-415-4

ABSCHNITT 4: Erste-Hilfe-Maßnahmen

- **4.1 Beschreibung der Erste-Hilfe-Maßnahmen**
- **Allgemeine Hinweise:**
Mit Produkt verunreinigte Kleidungsstücke unverzüglich entfernen.
Bei unregelmäßiger Atmung oder Atemstillstand künstliche Beatmung.

(Fortsetzung auf Seite 3)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

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Handelsname: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Fortsetzung von Seite 2)

- **Nach Einatmen:** Bei Bewusstlosigkeit Lagerung und Transport in stabiler Seitenlage.
- **Nach Hautkontakt:** Sofort mit Wasser und Seife abwaschen und gut nachspülen.
- **Nach Augenkontakt:**
Augen bei geöffnetem Lidspalt mehrere Minuten unter fließendem Wasser abspülen und Arzt konsultieren.
- **Nach Verschlucken:**
Kein Erbrechen herbeiführen, sofort Arzthilfe zuziehen.
Reichlich Wasser nachtrinken und Frischluftzufuhr. Unverzüglich Arzt hinzuziehen.
- **4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen**
Keine weiteren relevanten Informationen verfügbar.
- **4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung**
Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

- **5.1 Löschmittel**
- **Geeignete Löschmittel:** Feuerlöschmaßnahmen auf die Umgebung abstimmen.
- **5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren**
Keine weiteren relevanten Informationen verfügbar.
- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**
Schutzausrüstung tragen. Ungeschützte Personen fernhalten.
- **6.2 Umweltschutzmaßnahmen:**
Bei Eindringen in Gewässer oder Kanalisation zuständige Behörden benachrichtigen.
Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**
Neutralisationsmittel anwenden.
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.
Für ausreichende Lüftung sorgen.
- **6.4 Verweis auf andere Abschnitte**
Informationen zur sicheren Handhabung siehe Abschnitt 7.
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.
Informationen zur Entsorgung siehe Abschnitt 13.

ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung** Gute Entstaubung.
- **Hinweise zum Brand- und Explosionsschutz:** Keine besonderen Maßnahmen erforderlich.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:** Behälter dicht geschlossen halten.
- **Lagerklasse:**
- **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** -

(Fortsetzung auf Seite 4)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 02.04.2021

überarbeitet am: 02.04.2021

Handelsname: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Fortsetzung von Seite 3)

· **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

· **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.

· **8.1 Zu überwachende Parameter**

· **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:** Entfällt.

· **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.

· **8.2 Begrenzung und Überwachung der Exposition**

· **Persönliche Schutzausrüstung:**

· **Allgemeine Schutz- und Hygienemaßnahmen:**

Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.

Beschmutzte, getränkte Kleidung sofort ausziehen.

Vor den Pausen und bei Arbeitsende Hände waschen.

Berührung mit den Augen vermeiden.

Berührung mit den Augen und der Haut vermeiden.

· **Atemschutz:** Nicht erforderlich.

· **Handschutz:**



Schutzhandschuhe

Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

· **Handschuhmaterial**

Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.

· **Durchdringungszeit des Handschuhmaterials**

Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

· **Augenschutz:**



Dichtschließende Schutzbrille

ABSCHNITT 9: Physikalische und chemische Eigenschaften

· **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**

· **Allgemeine Angaben**

· **Aussehen:**

· **Form:** Fest

· **Farbe:** Grün

· **Geruch:** Geruchlos

· **Geruchsschwelle:** Nicht bestimmt.

(Fortsetzung auf Seite 5)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 02.04.2021

überarbeitet am: 02.04.2021

Handelsname: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Fortsetzung von Seite 4)

· pH-Wert:	Nicht anwendbar.
· Zustandsänderung	
· Schmelzpunkt/Gefrierpunkt:	233 °C
· Siedebeginn und Siedebereich:	Nicht bestimmt.
· Flammpunkt:	Nicht anwendbar.
· Entzündbarkeit (fest, gasförmig):	Der Stoff ist nicht entzündlich.
· Zersetzungstemperatur:	Nicht bestimmt.
· Selbstentzündungstemperatur:	Nicht bestimmt.
· Explosive Eigenschaften:	Das Produkt ist nicht explosionsgefährlich.
· Explosionsgrenzen:	
· Untere:	Nicht bestimmt.
· Obere:	Nicht bestimmt.
· Dampfdruck:	Nicht anwendbar.
· Dichte:	Nicht bestimmt.
· Relative Dichte	Nicht bestimmt.
· Dampfdichte	Nicht anwendbar.
· Verdampfungsgeschwindigkeit	Nicht anwendbar.
· Löslichkeit in / Mischbarkeit mit	
· Wasser:	Unlöslich.
· Verteilungskoeffizient: n-Octanol/Wasser:	Nicht bestimmt.
· Viskosität:	
· Dynamisch:	Nicht anwendbar.
· Kinematisch:	Nicht anwendbar.
· Festkörpergehalt:	100,0 %
· 9.2 Sonstige Angaben	Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität**
Gesundheitsschädlich bei Verschlucken.

(Fortsetzung auf Seite 6)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 02.04.2021

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Handelsname: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Fortsetzung von Seite 5)

- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut**
Verursacht schwere Verätzungen der Haut und schwere Augenschäden.
- **Schwere Augenschädigung/-reizung**
Verursacht schwere Verätzungen der Haut und schwere Augenschäden.
- **Sensibilisierung der Atemwege/Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Karzinogenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Ökotoxische Wirkungen:**
- **Bemerkung:** Sehr giftig für Fische.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**
Wassergefährdungsklasse 3 (Selbsteinstufung): stark wassergefährdend
Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen, auch nicht in kleinen Mengen.
Darf nicht unverdünnt bzw. unneutralisiert ins Abwasser bzw. in den Vorfluter gelangen.
Trinkwassergefährdung bereits beim Auslaufen geringster Mengen in den Untergrund.
In Gewässern auch giftig für Fische und Plankton.
sehr giftig für Wasserorganismen
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.

ABSCHNITT 14: Angaben zum Transport

- **14.1 UN-Nummer**
- **ADR, IMDG, IATA** UN2923

(Fortsetzung auf Seite 7)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

Druckdatum: 02.04.2021

überarbeitet am: 02.04.2021

Handelsname: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Fortsetzung von Seite 6)

· 14.2 Ordnungsgemäße UN-Versandbezeichnung

- | | |
|--|--|
| <ul style="list-style-type: none"> · ADR · IMDG · IATA | <p>2923 ÄTZENDER FESTER STOFF, GIFTIG, N.A.G. (Methyl Green, zinc chloride salt), UMWELTGEFÄHRDEND</p> <p>CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT</p> <p>CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt)</p> |
|--|--|

· 14.3 Transportgefahrenklassen
· ADR


- | | |
|--|--------------------------------------|
| <ul style="list-style-type: none"> · Klasse · Gefahrzettel | <p>8 Ätzende Stoffe</p> <p>8+6.1</p> |
|--|--------------------------------------|

· IMDG


- | | |
|--|--------------------------------------|
| <ul style="list-style-type: none"> · Class · Label | <p>8 Ätzende Stoffe</p> <p>8/6.1</p> |
|--|--------------------------------------|

· IATA


- | | |
|--|--|
| <ul style="list-style-type: none"> · Class · Label | <p>8 Ätzende Stoffe</p> <p>8 (6.1)</p> |
|--|--|

· 14.4 Verpackungsgruppe

- | | |
|--|-----------|
| <ul style="list-style-type: none"> · ADR, IMDG, IATA | <p>II</p> |
|--|-----------|

· 14.5 Umweltgefahren:

- | | |
|---|---|
| <ul style="list-style-type: none"> · Marine pollutant: · Besondere Kennzeichnung (ADR): | <p>Das Produkt enthält umweltgefährdende Stoffe: Methyl Green, zinc chloride salt</p> <p>Symbol (Fisch und Baum)</p> <p>Symbol (Fisch und Baum)</p> |
|---|---|

· 14.6 Besondere Vorsichtsmaßnahmen für den Verwender

- | | |
|---|---|
| <ul style="list-style-type: none"> · Nummer zur Kennzeichnung der Gefahr (Kemler-Zahl): · EMS-Nummer: · Stowage Category · Stowage Code | <p>Achtung: Ätzende Stoffe</p> <p>86</p> <p>F-A,S-B</p> <p>B</p> <p>SW2 Clear of living quarters.</p> |
|---|---|

· 14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code Nicht anwendbar.

(Fortsetzung auf Seite 8)

Sicherheitsdatenblatt

gemäß 1907/2006/EG, Artikel 31

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Handelsname: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Fortsetzung von Seite 7)

· Transport/weitere Angaben:
· ADR
· Begrenzte Menge (LQ)

1 kg

· Freigestellte Mengen (EQ)

Code: E2

Höchste Nettomenge je Innenverpackung: 30 g

Höchste Nettomenge je Außenverpackung: 500 g

· Beförderungskategorie

2

· Tunnelbeschränkungscode

E

· IMDG
· Limited quantities (LQ)

1 kg

· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 500 g

· UN "Model Regulation":

 UN 2923 ÄTZENDER FESTER STOFF, GIFTIG, N.A.G.
 (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II,
 UMWELTGEFÄHRDEND

ABSCHNITT 15: Rechtsvorschriften

· 15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch
· Richtlinie 2012/18/EU
· Namentlich aufgeführte gefährliche Stoffe - ANHANG I Der Stoff ist nicht enthalten.

· Seveso-Kategorie E1 Gewässergefährdend

· Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der unteren Klasse 100 t

· Mengenschwelle (in Tonnen) für die Anwendung in Betrieben der oberen Klasse 200 t

· Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten – Anhang II

Der Stoff ist nicht enthalten.

· Nationale Vorschriften:
· Wassergefährdungsklasse: WGK 3 (Selbsteinstufung): stark wassergefährdend.

· 15.2 Stoffsicherheitsbeurteilung: Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

ABSCHNITT 16: Sonstige Angaben

Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.

· Abkürzungen und Akronyme:

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Akute Toxizität - oral – Kategorie 4

Skin Corr. 1B: Hautreizende/-ätzende Wirkung – Kategorie 1B

Aquatic Acute 1: Gewässergefährdend - akut gewässergefährdend – Kategorie 1

Aquatic Chronic 1: Gewässergefährdend - langfristig gewässergefährdend – Kategorie 1

Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 02.04.2021

Revisione: 02.04.2021

SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

· **Articolo numero:** 18700

· **Numero CAS:**

7114-03-6

· **Numeri CE:**

230-415-4

· **UFI:** KKMI-909V-F002-F3UD

· **1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**

Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: www.sichim.com

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS05 corrosione

Skin Corr. 1B

H314 Provoca gravi ustioni cutanee e gravi lesioni oculari.



GHS09 ambiente

Aquatic Acute 1 H400 Molto tossico per gli organismi acquatici.

Aquatic Chronic 1 H410 Molto tossico per gli organismi acquatici con effetti di lunga durata.



GHS07

Acute Tox. 4

H302 Nocivo se ingerito.

(continua a pagina 2)

Scheda di dati di sicurezza ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 02.04.2021

Revisione: 02.04.2021

Denominazione commerciale: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Segue da pagina 1)

- **2.2 Elementi dell'etichetta**
- **Etichettatura secondo il regolamento (CE) n. 1272/2008**
La sostanza è classificata ed etichettata conformemente al regolamento CLP.
- **Pittogrammi di pericolo**



GHS05 GHS07 GHS09

- **Avvertenza Pericolo**
- **Componenti pericolosi che ne determinano l'etichettatura:**
Methyl Green, zinc chloride salt
- **Indicazioni di pericolo**
H302 Nocivo se ingerito.
H314 Provoca gravi ustioni cutanee e gravi lesioni oculari.
H410 Molto tossico per gli organismi acquatici con effetti di lunga durata.
- **Consigli di prudenza**
P303+P361+P353 **IN CASO DI CONTATTO CON LA PELLE (o con i capelli):** togliersi di dosso immediatamente tutti gli indumenti contaminati. Sciacquare la pelle [o fare una doccia].
P305+P351+P338 **IN CASO DI CONTATTO CON GLI OCCHI:** sciacquare accuratamente per parecchi minuti. Togliere le eventuali lenti a contatto se è agevole farlo. Continuare a sciacquare.
P310 Contattare immediatamente un CENTRO ANTIVELENI/un medico.
P321 Trattamento specifico (vedere su questa etichetta).
P405 Conservare sotto chiave.
P501 Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.
- **2.3 Altri pericoli**
- **Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.

SEZIONE 3: Composizione/informazioni sugli ingredienti

- **3.1 Caratteristiche chimiche: Sostanze**
- **Numero CAS**
7114-03-6 Methyl Green, zinc chloride salt
- **Numeri di identificazione**
- **Numeri CE:** 230-415-4

SEZIONE 4: Misure di primo soccorso

- **4.1 Descrizione delle misure di primo soccorso**
- **Indicazioni generali:**
Allontanare immediatamente gli abiti contaminati dal prodotto.
In caso di respirazione irregolare o di blocco respiratorio praticare la respirazione artificiale.
- **Inalazione:** Se il soggetto è svenuto provvedere a tenerlo durante il trasporto in posizione stabile su un fianco.
- **Contatto con la pelle:** Lavare immediatamente con acqua e sapone sciacquando accuratamente.
- **Contatto con gli occhi:**
Lavare con acqua corrente per diversi minuti tenendo le palpebre ben aperte e consultare il medico.

(continua a pagina 3)

Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 02.04.2021

Revisione: 02.04.2021

Denominazione commerciale: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Segue da pagina 2)

- **Ingestione:**
Non provocare il vomito, chiamare subito il medico.
Bere abbondante acqua e sostare in zona ben areata. Richiedere immediatamente l'intervento del medico.
- **4.2 Principali sintomi ed effetti, sia acuti che ritardati** Non sono disponibili altre informazioni.
- **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**
Non sono disponibili altre informazioni.

SEZIONE 5: Misure antincendio

- **5.1 Mezzi di estinzione**
- **Mezzi di estinzione idonei:** Adottare provvedimenti antiincendio nei dintorni della zona colpita.
- **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** Non sono disponibili altre informazioni.
- **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**
- **Mezzi protettivi specifici:** Non sono richiesti provvedimenti particolari.

SEZIONE 6: Misure in caso di rilascio accidentale

- **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza**
Indossare equipaggiamento protettivo. Allontanare le persone non equipaggiate.
- **6.2 Precauzioni ambientali:**
In caso di infiltrazione nei corpi d'acqua o nelle fognature avvertire le autorità competenti.
Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.
- **6.3 Metodi e materiali per il contenimento e per la bonifica:**
Utilizzare mezzi di neutralizzazione.
Smaltimento del materiale contaminato conformemente al punto 13.
Provvedere ad una sufficiente areazione.
- **6.4 Riferimento ad altre sezioni**
Per informazioni relative ad una manipolazione sicura, vedere capitolo 7.
Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.
Per informazioni relative allo smaltimento vedere Capitolo 13.

SEZIONE 7: Manipolazione e immagazzinamento

- **7.1 Precauzioni per la manipolazione sicura** Accurata captazione delle polveri.
- **Indicazioni in caso di incendio ed esplosione:** Non sono richiesti provvedimenti particolari.
- **7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** Non sono richiesti requisiti particolari.
- **Indicazioni sullo stoccaggio misto:** Non necessario.
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:** Mantenere i recipienti ermeticamente chiusi.
- **7.3 Usi finali particolari** Non sono disponibili altre informazioni.

SEZIONE 8: Controllo dell'esposizione/protezione individuale

- **Ulteriori indicazioni sulla struttura di impianti tecnici:** Nessun dato ulteriore, vedere punto 7.
- **8.1 Parametri di controllo**
- **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:** Non Necessario.
- **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.

(continua a pagina 4)

Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 02.04.2021

Revisione: 02.04.2021

Denominazione commerciale: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Segue da pagina 3)

- **8.2 Controlli dell'esposizione**
- **Mezzi protettivi individuali:**
- **Norme generali protettive e di igiene del lavoro:**
Tenere lontano da cibo, bevande e foraggi.
Togliere immediatamente gli abiti contaminati.
Lavarsi le mani prima dell'intervallo o a lavoro terminato.
Evitare il contatto con gli occhi.
Evitare il contatto con gli occhi e la pelle.
- **Maschera protettiva:** Non necessario.
- **Guanti protettivi:**



Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione. A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche. Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

- **Materiale dei guanti**
La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro.
- **Tempo di permeazione del materiale dei guanti**
Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.
- **Occhiali protettivi:**



Occhiali protettivi a tenuta

SEZIONE 9: Proprietà fisiche e chimiche

· 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali

· Indicazioni generali

· **Aspetto:**

· **Forma:**

Solido

· **Colore:**

Verde

· **Odore:**

Inodore

· **Soglia olfattiva:**

Non definito.

· **valori di pH:**

Non applicabile.

· Cambiamento di stato

· **Punto di fusione/punto di congelamento:**

233 °C

· **Punto di ebollizione iniziale e intervallo di ebollizione:** Non definito.

· **Punto di infiammabilità:**

Non applicabile.

· **Infiammabilità (solidi, gas):**

Sostanza non infiammabile.

· **Temperatura di decomposizione:**

Non definito.

· **Temperatura di autoaccensione:**

Non definito.

(continua a pagina 5)

Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 02.04.2021

Revisione: 02.04.2021

Denominazione commerciale: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Segue da pagina 4)

· Proprietà esplosive:	Prodotto non esplosivo.
· Limiti di infiammabilità:	
· Inferiore:	Non definito.
· Superiore:	Non definito.
· Tensione di vapore:	Non applicabile.
· Densità:	Non definito.
· Densità relativa	Non definito.
· Densità di vapore:	Non applicabile.
· Velocità di evaporazione	Non applicabile.
· Solubilità in/Miscibilità con	
· acqua:	Insolubile.
· Coefficiente di ripartizione: n-ottanolo/acqua:	Non definito.
· Viscosità:	
· Dinamica:	Non applicabile.
· Cinematica:	Non applicabile.
· Contenuto solido:	100,0 %
· 9.2 Altre informazioni	Non sono disponibili altre informazioni.

SEZIONE 10: Stabilità e reattività

- **10.1 Reattività** Non sono disponibili altre informazioni.
- **10.2 Stabilità chimica**
- **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.
- **10.3 Possibilità di reazioni pericolose** Non sono note reazioni pericolose.
- **10.4 Condizioni da evitare** Non sono disponibili altre informazioni.
- **10.5 Materiali incompatibili:** Non sono disponibili altre informazioni.
- **10.6 Prodotti di decomposizione pericolosi:** Non sono noti prodotti di decomposizione pericolosi.

SEZIONE 11: Informazioni tossicologiche

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta**
Nocivo se ingerito.
- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea**
Provoca gravi ustioni cutanee e gravi lesioni oculari.
- **Lesioni oculari gravi/irritazioni oculari gravi**
Provoca gravi ustioni cutanee e gravi lesioni oculari.
- **Sensibilizzazione respiratoria o cutanea**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Cancerogenicità** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità per la riproduzione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

(continua a pagina 6)

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Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 02.04.2021

Revisione: 02.04.2021

Denominazione commerciale: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Segue da pagina 5)

- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

SEZIONE 12: Informazioni ecologiche

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Effetti tossici per l'ambiente:**
- **Osservazioni:** Molto tossico per i pesci.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**
Pericolosità per le acque classe 3 (D) (Autoclassificazione): molto pericoloso
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature, anche in piccole dosi.
Non immettere il prodotto non diluito o non neutralizzato nelle acque di scarico e nei canali di raccolta.
Pericolo per le acque potabili anche in caso di perdite nel sottosuolo di quantità minime di prodotto.
Tossico per pesci e plancton.
Molto tossico per gli organismi acquatici
- **12.5 Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

SEZIONE 13: Considerazioni sullo smaltimento

- **13.1 Metodi di trattamento dei rifiuti**
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

SEZIONE 14: Informazioni sul trasporto

- | | |
|---|---|
| · 14.1 Numero ONU | |
| · ADR, IMDG, IATA | UN2923 |
| · 14.2 Nome di spedizione dell'ONU | |
| · ADR | 2923 SOLIDO CORROSIVO TOSSICO, N.A.S. (Methyl Green, zinc chloride salt), PERICOLOSO PER L'AMBIENTE |
| · IMDG | CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT |
| · IATA | CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt) |

(continua a pagina 7)

Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 02.04.2021

Revisione: 02.04.2021

Denominazione commerciale: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Segue da pagina 6)

· 14.3 Classi di pericolo connesso al trasporto

· ADR



· **Classe** 8 Materie corrosive
· **Etichetta** 8+6.1

· IMDG



· **Class** 8 Materie corrosive
· **Label** 8/6.1

· IATA



· **Class** 8 Materie corrosive
· **Label** 8 (6.1)

· 14.4 Gruppo di imballaggio

· **ADR, IMDG, IATA** II

· 14.5 Pericoli per l'ambiente:

Il prodotto contiene materie pericolose per l'ambiente: Methyl Green, zinc chloride salt

· **Marine pollutant:** *Simbolo (pesce e albero)*
· **Marcatura speciali (ADR):** *Simbolo (pesce e albero)*

· 14.6 Precauzioni speciali per gli utilizzatori

Attenzione: Materie corrosive

· **N° identificazione pericolo (Numero Kemler):** 86
· **Numero EMS:** F-A,S-B
· **Stowage Category** B
· **Stowage Code** SW2 Clear of living quarters.

· 14.7 Trasporto di rifiuti secondo l'allegato II di MARPOL ed il codice IBC

Non applicabile.

· Trasporto/ulteriori indicazioni:

· ADR

· **Quantità limitate (LQ)** 1 kg
· **Quantità esenti (EQ)** Codice: E2
Quantità massima netta per imballaggio interno: 30 g
Quantità massima netta per imballaggio esterno: 500 g
· **Categoria di trasporto** 2
· **Codice di restrizione in galleria** E

(continua a pagina 8)

Scheda di dati di sicurezza
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 02.04.2021

Revisione: 02.04.2021

Denominazione commerciale: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(Segue da pagina 7)

<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN 2923 SOLIDO CORROSIVO TOSSICO, N.A.S. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, PERICOLOSO PER L'AMBIENTE</p>

SEZIONE 15: Informazioni sulla regolamentazione

- **15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**
- **Direttiva 2012/18/UE**
- **Sostanze pericolose specificate - ALLEGATO I** La sostanza non è contenuta
- **Categoria Seveso E1** Pericoloso per l'ambiente acquatico
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia inferiore** 100 t
- **Quantità limite (tonnellate) ai fini dell'applicazione dei requisiti di soglia superiore** 200 t
- **Direttiva 2011/65/UE sulla restrizione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche - Allegato II**
- La sostanza non è contenuta
- **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

SEZIONE 16: Altre informazioni

I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.

- **Abbreviazioni e acronimi:**
- 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
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Tossicità acuta per via orale – Categoria 4
- Skin Corr. 1B: Corrosione/irritazione della pelle – Categoria 1B
- Aquatic Acute 1: Pericoloso per l'ambiente acquatico - pericolo acuto per l'ambiente acquatico – Categoria 1
- Aquatic Chronic 1: Pericoloso per l'ambiente acquatico - pericolo a lungo termine per l'ambiente acquatico – Categoria 1

물질안전보건자료

GHS에 따라 라다

인쇄일자: 2021.04.02

개정: 2021.04.02

1 화학제품과 회사에 관한 정보

제품제명

- **제품명:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)
- **상품번호:** 18700
- **번호번호번호**
7114-03-6
- **EC 의번호:**
230-415-4

해당 해당 물질이나 혼합물 관련 권고 및 사용 금지 용도 추가적인 정보가 존재하지 않습니다.

- **제품의 권고 용도와 사용 제한** (제한 없음 실화 학품)
- **안전데이터표(Safety Data Sheet) 내 공급 업체 관련 권고 사항 정보**
- **제조사/수입자/유통업체 정보**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com

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Guseong-Dong, Yuseong-gu, Daejeon,
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Phone: 82 42 710 2091
Fax: 82 42 367 0005
Website: www.labsmro.com

- **추가적인 정보** (화학제품안전관리부) (ChemTrec) (Contract CcN7661)
- **비상연락 전화번호:**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

2 유해성·위험성

- **순물질 또는 혼합물** (분류분류)



두개골과 대퇴골

급성 독성 - 경구 - 구분 3 H301 삼키면 유독함



부식

피부 부식성/피부 자극성 - 구분 1 H314 피부에 심한 화상과 눈에 손상을 일으킴
심한 눈 손상성/눈 자극성 - 구분 1 H318 눈에 심한 손상을 일으킴

(2 쪽에 계속)

물질안전보건자료

GHS에 따라라따

인쇄일자: 2021.04.02

개정: 2021.04.02

제품명: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(1 쪽부터계속)



환경

수생환경 유해성 - 급성 1 H400 수생생물에 매우 유독함
 수생환경 유해성 - 만성1 H410 장기적 영향에 의해 수생생물에 매우 유독함

- 라벨 표기 요소요소
 - 라벨 표기 요소요소
 - 그림문자
- 본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.



GHS05 GHS06 GHS09

- 신호어 위험
- 상표상에명확히위험성이표시된성분:

Methyl Green, zinc chloride salt

유해 위험성 문구

삼키면 유독함
 피부에 심한 화상과 눈에 손상을 일으킴
 장기적 영향에 의해 수생생물에 매우 유독함

- 예방 조치 문구문구

삼켰을 시: 즉시 독성물질센터/병원 연락 필요.
 (라벨 참조) 처치를 하시오.

피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하십시오. 피부를 물로 씻으시오/샤워하십시오

· 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.

· 밀봉하여 저장하십시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.

기타기타 유해성

- PBT(잔류성, 생물농축성, 물질분해성) 및 vPvB(고 잔류성, 고 생물농축성 물질)에 해당하지 않음
- PBT(잔류성, 생물농축성, 물질분해성)에 해당 없음.
- vPvB(고 잔류성, 고 생물농축성 물질)에 해당 없음.

3 구성성분의 명칭 및 함유량

- 화학적 특성: 화학물질
- CAS-번호표시
7114-03-6 Methyl Green, zinc chloride salt

식별식별 번호

- EC 의번호: 230-415-4

4 응급조치 요령

- 응급조치외용 내용내용
- 일반정보정보
이제품에 의해 오염 된 의상은 즉시제 거한 다.
불규 칙적인 호흡 이나 호흡 정지상 태 에 서는 인공 호흡 을 실시한다.
- 흡입했을 때: 환자가 의식을 잃었을 경우에는 안전한 자세에서 환자를 운반한다.

(3 쪽에계속)

물질안전보건자료 GHS에 따라라다

인쇄일자: 2021.04.02

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제품명: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(3 쪽부터계속)

- **추천정보정보**조 할 당시에 유 효 한 목 록 을 기 초 로 사 용 했 다.

노출 통제 통제
개인개인 보호구

· **일반적보호조치및위생조치:**

- 식료품, 음료수와 사료로부터 멀리떨어뜨려 놓는다.
- 더러워지거나 음료수가 묻은 옷은 즉시 탈의한다.
- 휴식 전이나 작업이 끝날때마다 손을 씻는다.
- 눈과의 접촉을 피한다.
- 눈과 피부와의 접촉은 피한다.

· **호흡기 보호**필요없음.

보수 보호보호



보호용 장갑

장갑재질은제품 / 원료 / 조제를투과시키지않아야하고, 내구성이있어야한다.
테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합 물에 적합한 장갑재질에 대한 추천이 없다.
투과 시간, 침투율 과 저하를 고려해서 장갑 재료를 선택한다.

· **장갑의재료**

적합한장갑의선택은재질차이뿐아니라품질기준의차이도 고려하여이루어져야하고제조업자에따라서도다르게선정되어야한다.

· **장갑 재료 의 투과시 간** 정확한관통시간은보호장갑제조자에의하여인지되고, 준수되어야한다.

보수 보호보호



확조이는보안경

9 물리화학적 특성

기본 물리화학적 특성에 대한 정보

· 일반정보	
외형외형외형	
· 물리적상태상태	고체
· 색:	초록
냄새냄새냄새	무취의
· 후각역치	알맞지않다.
· pH:	해당사항 없음.
· 상태변화	
· 녹는점/어는점:	233 °C
초기초기 끓는점과 끓는점범위범위	맞지않는
· 인화점:	해당사항 없음.
· 인화성(고체)기체	이 제품은 가연 성 이 없다.
분해분해온도	알맞지않다.
· 자기점화:	알맞지않다.
· 폭발위험:	이제품은폭발위험성이없다

(5 쪽에계속)

물질안전보건자료

GHS에 따라라따

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(4 쪽부터계속)

인화	안화	안화	인화	안화	안화	인화	안화	안화
· 아래로:	알맞지않다.							
위로	알맞지않다.							
· 증기압:	해당사항 없음.							
밀도	밀도	밀도	밀도	밀도	밀도	밀도	밀도	밀도
· 증기밀도:	해당사항 없음.							
비중	비중	비중	비중	비중	비중	비중	비중	비중
· 증기밀도:	해당사항 없음.							
중발	중발	중발	중발	중발	중발	중발	중발	중발
· 용해도:	불용해성의							
· 물:	불용해성의							
· n 옥탄올/물 분배계수:	알맞지않다.							
점도	점도	점도	점도	점도	점도	점도	점도	점도
· 역학적:	해당사항 없음.							
· 동점성:	해당사항 없음.							
· 고체양함량함량	100.0 %							
기타 정보	추가적인 정보가 존재하지 않습니다.							

10 안정성 및 반응성

- 반응성 추가적인 정보가 존재하지 않습니다.
- 화학적 안정성
- 화학적 안정성: 유해물질의 가능성 / 피해에 관한 조건 조건에 따라 사용 할 경우 해체는 없다
- 유해반응 가능성: 위험한 반응으로는 알려지지 않았다.
- 피해에 관한 조건 조건에 관한 정보가 존재하지 않습니다.
- 혼합 유해물질: 추가적인 정보가 존재하지 않습니다.
- 유해분해물질: 위험성있는 분해물들은 알려지지 않았다.

11 독성에 관한 정보

- 독성학적 영향에 대한 정보
- 급성 독성 독성 독성
- 일차적 자극 효과
- 피부 자극 또는 부패성: 피부와 점막에 강한 부식작용.
- 심한 심한 심한 심한 심한 자극성:
- 강한 부식작용
- 심각한 안구상처의 위험이 있는 강한 자극
- 감각화: 민감한 영향이 없는 것으로 알려져 있다.
- 추가적인 독성에 관한 정보
- 삼킬 경우 식도나 위 등의 내장 기관 벽에 상처를 주는 위험과 마찬가지로 입 주변이나 구강에 강한 부식작용을 한다

12 환경에 미치는 영향

- 독성 독성 독성
- 수생독성: 추가적인 정보가 존재하지 않습니다.
- 지속성 및 분해성: 추가적인 정보가 존재하지 않습니다.
- 환경 시스템에서의 행동:
- 생물농축 잠재성: 추가적인 정보가 존재하지 않습니다.

(6 쪽에 계속)

물질안전보건자료 GHS에 따라라따

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(5 쪽부터계속)

- 토양내 이동성 추가적인 정보가 존재하지 않습니다.
 - 생태독성: 의견의견의견류 에 매우 독성임
 - 추가적인 생태학 정보정보
 - 일반 열병열병열병특징
 - 수질오염등급 3 (자체등급분류): 심하게수질오염이된 지하수나, 하천으로또는 하수도망에도달하지않게한다. 역시극소수의양이라도안된다. 희석시키지않은채또는중화시키지않은채하수도나배수로에도달하지않게해야한다. 지하수로아주미세한양이유입되었을경우엔이미식수오염상태이다 하천에서는역시물고기나플랑크톤게는독성이있다. 물속의유기체에아주독이되는것
 - PBT(잔류성, 생물농축성, 물질독성) 및 vPvB(고 잔류성, 고 생물농축성, 물질독성) 결과
 - PBT(잔류성, 생물농축성, 물질독성) 및 vPvB(고 잔류성, 고 생물농축성, 물질독성) 당사항 없음.
 - vPvB(고 잔류성, 고 생물농축성, 물질독성) 당사항 없음.
- 기타기타 부속용 추가적인 정보가 존재하지 않습니다.

13 폐기시 주의사항

- 폐기물 처리 방법
권고 권고 권고 생활 쓰레기와 함께 처리되어서는 안된다. 하수도망으로 유입되어서는 안된다.
- 비위생적 포장 포장
권고 권고 권고 땅속에 입각한 쓰레기 처리.

14 운송에 필요한 정보

유엔 유엔 유엔 번호

- ADR, IMDG, IATA UN2923

· 적정 적정 적정 명

- ADR 2923 CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), ENVIRONMENTALLY HAZARDOUS
- IMDG CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT
- IATA CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt)

교통 교통 교통 위험 라벨

- ADR



등급 등급 등급

- 위험 라벨 라벨 8 부식 작용하는 물질

- 위험 라벨 라벨 8+6.1

(7 쪽에 계속)



물질안전보건자료 GHS에 따라라따

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(6 쪽부터계속)

<p>· IMDG</p>  <p>· Class</p> <p>· Label</p>	<p>8 부식작용하는물질</p> <p>8/6.1</p>
<p>· IATA</p>  <p>· Class</p> <p>· Label</p>	<p>8 부식작용하는물질</p> <p>8 (6.1)</p>
<p>· 용기등급</p> <p>· ADR, IMDG, IATA</p>	<p>II</p>
<p>· 환경적 유해물질:</p> <p>· 해양오염물질:</p> <p>특수 취급사항(환경부령):</p>	<p>이물질은환경오염물질을함유하고있다: Methyl Green, zinc chloride salt</p> <p>심벌 (물고기와 나무)</p> <p>심벌 (물고기와 나무)</p>
<p>· 이물질특별취급조치</p> <p>위험위험위험코드</p> <p>· E번호번호번호</p> <p>· Stowage Category</p> <p>· Stowage Code</p>	<p>경고: 부식작용하는물질</p> <p>86</p> <p>F-A,S-B</p> <p>B</p> <p>SW2 Clear of living quarters.</p>
<p>· MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크물질의 운송</p>	<p>해당사항 없음.</p>
<p>· 운송/취급/처분 정보</p> <p>· ADR</p> <p>한정량제한량(수량)</p> <p>· Excepted quantities (EQ)</p> <p>운송위험분류구분</p> <p>터널제한량제한코드</p>	<p>1 kg</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 g</p> <p>Maximum net quantity per outer packaging: 500 g</p> <p>2</p> <p>E</p>
<p>· IMDG</p> <p>· Limited quantities (LQ)</p> <p>· Excepted quantities (EQ)</p>	<p>1 kg</p> <p>Code: E2</p> <p>Maximum net quantity per inner packaging: 30 g</p> <p>Maximum net quantity per outer packaging: 500 g</p>
<p>· UN번호/위험등급/류제</p>	<p>UN 2923 CORROSIVE SOLID, TOXIC, N.O.S. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, ENVIRONMENTALLY HAZARDOUS</p>

물질안전보건자료 GHS에 따라라따

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(7 쪽부터계속)

15 법적 규제현황

· 산업안전보건법에 의해위해규제

제조제조금지물질:

성분이포함되어있지않다

· 허가대상물질:

성분이포함되어있지않다

· 관리대상유해물질:

성분이포함되어있지않다

· 작업환경측정 대상 유해인자

성분이포함되어있지않다

· 특수건강 집광 대상 유해인자

성분이포함되어있지않다

해당 해당 물질 또는 혼합 물에 대한 유해인자, 작업환경 측정, 건강검진, 법률

· 화학물질관리법

· 사고대비물질

성분이포함되어있지않다

· 금지물질

성분이포함되어있지않다

· 제한물질

성분이포함되어있지않다

· 유독물질

성분이포함되어있지않다

· 허가물질

성분이포함되어있지않다

등록 등록 물질 또는 선제대상 화학물질

성분이포함되어있지않다

· '21년까지 등록하여야 할 압, 들언변이, 생식능력 이상을 일으키거나 일으킬 우려가 있는 기존화학물질

성분이포함되어있지않다

· 중점관리물 질(양) 지정 지정

· 표1 중점관리물 질(제한전관련관련

성분이포함되어있지않다

· 표2 중점관리물 질(제한전관련관련

성분이포함되어있지않다

· GHS 라벨 요소

본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

· 그림문자



GHS05 GHS06 GHS09

· 신호어 위험

(9 쪽에계속)

물질안전보건자료

GHS에 따라 라다

인쇄일자: 2021.04.02

개정: 2021.04.02

제품명: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(8 쪽부터 계속)

· 상표상에 명확히 위험성이 표시된 성분:

Methyl Green, zinc chloride salt

유해 ~~유해~~ ~~유해~~ ~~유해~~ 문구

삼키면 유독함

피부에 심한 화상과 눈에 손상을 일으킴

장기적 영향에 의해 수생생물에 매우 유독함

· 예방 조치 문구 문구

삼켰을 시: 즉시 독성물질센터/병원 연락 필요.

(라벨 참조) 처치를 하시오.

피부(또는 머리카락)에 묻으면 오염된 모든 의복은 벗거나 제거하십시오. 피부를 물로 씻으시오/샤워하십시오

· 눈에 묻으면 몇 분간 물로 조심해서 씻으시오. 가능하면 콘택트렌즈를 제거하십시오. 계속 씻으시오.

밀봉하여 저장하십시오.

(지방/지역/국가/국제 규정에 따라) 에 내용물/용기를 폐기하십시오.

· 화학물질 안전성 평가 화학물질 안전성 평가가 수행되지 않음

16 그 밖의 참고사항

이 보고는 우리 지식에 대한 오늘날의 상태에 대하여 평가하고 있다, 하지만 이 보고서는 생산 특성에 관한 보증은 기술하지 않았으며 계약적인 법률 관계에 기반을 두고 있지 않다

최초 ~~최초~~ ~~작성~~ 일자: 2021.04.02

개정 개정 ~~개정~~ ~~날~~ ~~최종~~ ~~개정~~ 일자: 1 / 2021.04.02

· 약어와 두문자어:

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

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Sikkerhetsdatablad

iflg. forordning (EF) nr. 1907/2006, Artikkel 31

Trykkdato: 02.04.2021

revidert den: 02.04.2021

Avsnitt 1: Identifikasjon av stoffet/stoffblandingen og av selskapet/foretaket

- **1.1 Produktidentifikator**
- **Handelsnavn:** METHYL GREEN, CERTIFIED (CERT NO. DcG-10)
- **Artikkelnummer:** 18700
- **CAS-nummer:**
7114-03-6
- **EC nummer:**
230-415-4
- **UFI:** KKM1-909V-F002-F3UD
- **1.2 Relevante identifiserte bruksområder for stoffet eller stoffblandingen og bruk som frarådes**
Ikke noe mer relevant informasjon tilgjengelig.
- **Bruk av stoffet/ tilberedning** laboratoriekjemikalier
- **1.3 Opplysninger om leverandøren av sikkerhetsdatabladet**
- **Produsent/leverandør:**
Electron Microscopy Sciences
1560 Industry Road
USA-Hatfield, PA 19440
Tel: 215-412-8400 Fax: 215-412-8450
email: info@emsdiasum.com
www.emsdiasum.com
- **Avdeling for nærmere informasjon:** Product safety department
- **1.4 Nødtelefonnummer**
ChemTrec 1-800-424-9300 Contract CCN7661
1-703-527-3887

Avsnitt 2: Fareidentifikasjon

- **2.1 Klassifisering av stoffet eller stoffblandingen**
- **Klassifisering i henhold til EC-forskrift nr.1272/2008**



GHS05 Etsende virkning

Skin Corr. 1B H314 Gir alvorlige etseskader på hud og øyne.



GHS09 Miljø

Aquatic Acute 1 H400 Meget giftig for liv i vann.

Aquatic Chronic 1 H410 Meget giftig, med langtidsvirkning, for liv i vann.



GHS07

Acute Tox. 4 H302 Farlig ved svelging.

- **2.2 Merkingselementer**
- **Merking iht. bestemmelse (EC) Nr. 1272/2008**
Substansen er klassifisert og merket i henhold til CLP-forordningen.

(fortsatt på side 2)

Sikkerhetsdatablad

iflg. forordning (EF) nr. 1907/2006, Artikkel 31

Trykdato: 02.04.2021

revidert den: 02.04.2021

Handelsnavn: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(fortsatt fra side 1)

· Farepiktogrammer



GHS05 GHS07 GHS09

· Varselord Fare

· Farebestemmende komponenter ved etikettering:

Methyl Green, zinc chloride salt

· Faresetninger

H302 Farlig ved svelging.

H314 Gir alvorlige etseskader på hud og øyne.

H410 Meget giftig, med langtidsvirkning, for liv i vann.

· Sikkerhetssetninger

P303+P361+P353 VED HUDKONTAKT (eller håret): Tilsølte klær må fjernes straks. Skyll [eller dusj] huden med vann.

P305+P351+P338 VED KONTAKT MED ØYNENE: Skyll forsiktig med vann i flere minutter. Fjern eventuelle kontaktlinser dersom dette enkelt lar seg gjøre. Fortsett skyllingen.

P310 Kontakt umiddelbart et GIFTINFORMASJONSSENTER/en lege.

P321 Særlig behandling (se på etiketten).

P405 Oppbevares innelåst.

P501 Innholdet / emballasjen skal avhendes i henhold til de lokale / regionale / nasjonale / internasjonale forskrifter.

· 2.3 Andre farer

· Resultater av PBT- og vPvB-vurdering

· PBT: Ikke brukbar.

· vPvB: Ikke brukbar.

Avsnitt 3: Sammensetning/opplysninger om bestanddeler

· 3.1 Kjemisk karakterisering: Stoffer

· CAS-nr. betegnelse

7114-03-6 Methyl Green, zinc chloride salt

· Identifikasjonsnummer(numre)

· EC nummer: 230-415-4

Avsnitt 4: Førstehjelpstiltak

· 4.1 Beskrivelse av førstehjelpstiltak

· Generelle informasjoner:

Klær som er tilsølt med produktet må fjernes omgående.

Kunstig åndedrett ved uregelmessig åndedrett eller åndedrettsstillstand.

· Etter innånding: Ved bevisstløshet lagring og transport i stabil sidestilling.

· Etter hudkontakt: Vask straks med vann og sepe og skyll godt etterpå.

· Etter øyekontakt: Skyll øynene med åpne øyenlokk i flere minutter under rennende vann og tilkall lege.

· Etter svelging:

Ikke få pasienten til å kaste opp. Tilkall lege straks.

Drikk rikelig med vann og sørg for frisk luft. Tilkall lege omgående.

· 4.2 De viktigste symptomene og virkningene, både akutte og forsinkede

Ikke noe mer relevant informasjon tilgjengelig.

(fortsatt på side 3)

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Trykkdato: 02.04.2021

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Handelsnavn: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(fortsatt fra side 2)

- **4.3 Angivelse av om umiddelbar legehjelp og spesialbehandling er nødvendig**
Ikke noe mer relevant informasjon tilgjengelig.

Avsnitt 5: Brannsløkkingstiltak

- **5.1 Slokkingsmidler**
- **Egnede slukningsmidler:** Brannslukningstiltak tilpasses omgivelsene.
- **5.2 Særlige farer knyttet til stoffet eller stoffblandingen** Ikke noe mer relevant informasjon tilgjengelig.
- **5.3 Råd til brannmannskaper**
- **Spesielt verneutstyr:** Ingen spesielle tiltak nødvendig.

Avsnitt 6: Tiltak ved utilsiktede utslipp

- **6.1 Personlige forsiktighetsregler, personlig verneutstyr og nødrutiner**
Ta på beskyttelsesdrakt. Hold ubeskyttede personer borte.
- **6.2 Forsiktighetsregler med hensyn til miljø**
Ansvarlige myndigheter varsles hvis produktet er kommet ned i vassdrag eller kloakk.
La ikke produktet komme ned i kloakk/overflatevann/grunnvann.
- **6.3 Metoder og materialer for oppsamling og rensing**
Bruk nøytraliseringsmiddel.
Bortskaff kontaminert materiale som avfall i.h.t. punkt 13.
Sørg for tilstrekkelig ventilasjon.
- **6.4 Henvisning til andre avsnitt**
Informasjoner om sikker håndtering, se kapittel 7.
Informasjoner om personlig beskyttelsesutstyr, se kapittel 8.
Informasjoner om bortskaffelse/deponering, se kapittel 13.

Avsnitt 7: Håndtering og lagring

- **7.1 Forsiktighetsregler for sikker håndtering** God avstøvning.
- **Henvisninger om brann- og eksplosjonsvern:** Ingen særlige tiltak nødvendig.
- **7.2 Vilkår for sikker lagring, herunder eventuelle uforenligheter**
- **Lagring:**
- **Krav til lagerrom og beholdere:** Ingen spesielle krav.
- **Informasjoner om felles lagring:** Ikke nødvendig.
- **Ytterligere informasjoner om lagervilkårene:** Hold beholderne tett tillukket.
- **7.3 Særlig(e) sluttanvendelse(r)** Ikke noe mer relevant informasjon tilgjengelig.

Avsnitt 8: Eksponeringskontroll / personlig verneutstyr

- **Ytterligere informasjoner om utforming av tekniske anlegg:** Ingen ytterligere informasjoner, se punkt 7.
- **8.1 Kontrollparametere**
- **Komponenter med grenseverdier for arbeidsplass som må overholdes:** Bortfaller.
- **Ytterligere informasjoner:** Basis: listene som var gyldige ved oppstillingen.
- **8.2 Eksponeringskontroll**
- **Personlig verneutstyr:**
- **Generelle verne- og hygienetiltak:**
Holdes adskilt fra næringsmidler, drikkevarer og førstoffer.
Fjern omgående forurensede, gjennomvåtede klær.

(fortsatt på side 4)

Sikkerhetsdatablad

iflg. forordning (EF) nr. 1907/2006, Artikkel 31

Trykkdato: 02.04.2021

revidert den: 02.04.2021

Handelsnavn: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(fortsatt fra side 3)

Vask hendene før arbeidspauser og ved arbeidets slutt.

Unngå berøring med øynene.

Unngå berøring med øyne og hud.

· **Åndedrettsvern:** Ikke nødvendig.

· **Håndvern:**



Beskyttelseshansker

Hanskematerialet må være ugjennomtrengelig og bestandig overfor produktet /stoffet /blandingen.

På grunn av manglende tester kan det ikke gis noen anbefaling om hanskemateriale for produktet / tilberedningsprosessen/kjemikalieblandingen.

Hanskematerialet velges under hensyntagen til holdbarhetstid, gjennomtrengelighet og degradering.

· **hanskemateriale**

Valget av egnet hanske er ikke bare avhengig av materiale, men også av andre kvalitetskjenner og er forskjellig fra produsent til produsent.

· **gjennomtrengingstid for hanskemateriale**

Den nøyaktige holdbarhetstiden må bringes på det rene hos hanskeprodusenten og overholdes.

· **Øyevern:**



Tettsittende vernebrille

Avsnitt 9: Fysiske og kjemiske egenskaper

· **9.1 Opplysninger om grunnleggende fysiske og kjemiske egenskaper**

· **alminnelige opplysninger**

· **Utseende:**

· **Form:** Fast

· **Farge:** Grønn

· **Lukt:** Uten lukt

· **Lukterskel:** Ikke bestemt.

· **pH-verdi:** Ikke brukbar.

· **Tilstandsending**

· **Smeltepunkt/frysepunkt:** 233 °C

· **Startkokepunkt og kokeområde:** Ikke bestemt.

· **Flammepunkt:** Ikke brukbar.

· **Antennelighet (fast stoff, gass):** Stoffet er ikke antennelig.

· **Nedbrytingstemperatur:** Ikke bestemt.

· **Selvantennelsestemperatur:** Ikke bestemt.

· **Eksplorative egenskaper:** Produktet er ikke eksplosjonsfarlig.

· **Eksplasjonsgrenser:**

· **Nedre:** Ikke bestemt.

· **Øvre:** Ikke bestemt.

· **Damptrykk:** Ikke brukbar.

(fortsatt på side 5)

Sikkerhetsdatablad

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Trykkdato: 02.04.2021

revidert den: 02.04.2021

Handelsnavn: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(fortsatt fra side 4)

· Tetthet:	Ikke bestemt.
· Relativ tetthet:	Ikke bestemt.
· Damp tetthet:	Ikke brukbar.
· Fordampingshastighet:	Ikke brukbar.
· Løslighet i / blandbarhet med vann:	Uløslig.
· Fordelingskoeffisient; n-oktanol/vann:	Ikke bestemt.
· Viskositet:	
· Dynamisk:	Ikke brukbar.
· Kinematisk:	Ikke brukbar.
· Andel faste stoffer:	100,0 %
· 9.2 Andre opplysninger	Ikke noe mer relevant informasjon tilgjengelig.

Avsnitt 10: Stabilitet og reaktivitet

- **10.1 Reaktivitet** Ikke noe mer relevant informasjon tilgjengelig.
- **10.2 Kjemisk stabilitet**
- **Termisk spaltning / vilkår som må unngås:** Ingen spaltning ved formålsriktig bruk.
- **10.3 Risiko for farlige reaksjoner** Det kjennes ingen farlige reaksjoner.
- **10.4 Forhold som skal unngås** Ikke noe mer relevant informasjon tilgjengelig.
- **10.5 Uforenlige materialer** Ikke noe mer relevant informasjon tilgjengelig.
- **10.6 Farlige nedbrytingsprodukter** Ingen farlige spaltningsprodukter kjente.

Avsnitt 11: Toksikologiske opplysninger

- **11.1 Opplysninger om toksikologiske virkninger**
- **Akutt giftighet**
Farlig ved svelging.
- **Primær irriteringsvirkning:**
- **Hudetsing/hudirritasjon**
Gir alvorlige etseskader på hud og øyne.
- **Alvorlig øyeskade/øyeirritasjon**
Gir alvorlige etseskader på hud og øyne.
- **Sensibilisering ved innånding eller hudkontakt** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Informasjon om følgende grupper med potensielle virkninger:**
- **CMR-virkninger (kreftfremkallende virkninger, arvestoffskadelige og reproduksjonsskadelige virkninger)**
- **Arvestoffskadelig virkning på kjønnseller** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Kreftfremkallende egenskap** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Reproduksjonstoksisitet** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **STOT – enkelteksponering** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **STOT – gjentatt eksponering** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.
- **Aspirasjonsfare** Basert på tilgjengelige data, klassifiseringskriteriene ikke oppfylt.

Avsnitt 12: Økologiske opplysninger

- **12.1 Giftighet**
- **Akvatisk toksisitet:** Ikke noe mer relevant informasjon tilgjengelig.
- **12.2 Persistens og nedbrytbarhet** Ikke noe mer relevant informasjon tilgjengelig.

(fortsatt på side 6)

Sikkerhetsdatablad

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Trykkdato: 02.04.2021

revidert den: 02.04.2021

Handelsnavn: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)


(fortsatt fra side 5)

- **12.3 Bioakkumuleringsevne** Ikke noe mer relevant informasjon tilgjengelig.
- **12.4 Mobilitet i jord** Ikke noe mer relevant informasjon tilgjengelig.
- **Økotoksiske virkninger:**
- **Bemerkning:** meget giftig for fisk
- **Ytterligere økologiske informasjoner:**
- **Generelle informasjoner:**
Vannfareklasse 3 (D) (Selvklassifisering): meget farlig for vann
Ikke la stoffet komme ned i grunnvannet, i vassdrag eller i kloakker, heller ikke i små mengder.
Må ikke komme ufortynnet eller unøytralisert ned i spillvann eller i avløpsgrøft.
Fare for drikkevann allerede ved utstrømning av meget små mengder i marken.
I vassdrag også giftig for fisker og plankton.
meget giftig for vannorganismer
- **12.5 Resultater av PBT- og vPvB-vurdering**
- **PBT:** Ikke brukbar.
- **vPvB:** Ikke brukbar.
- **12.6 Andre skadevirkninger** Ikke noe mer relevant informasjon tilgjengelig.

Avsnitt 13: Sluttbehandling

- **13.1 Avfallsbehandlingsmetoder**
- **Anbefaling:** Må ikke bortskaffes sammen med husholdningsavfall. Må ikke komme ned i kloakk.
- **Ikke rengjort emballasje:**
- **Anbefaling:** Deponering i henhold til myndighetenes forskrifter.

Avsnitt 14: Transportopplysninger

- | | |
|--------------------------------------|--|
| · 14.1 FN-nummer | UN2923 |
| · ADR, IMDG, IATA | |
| · 14.2 FN-forsendelsesnavn | 2923 ETSENDE FAST STOFF, GIFTIG, N.O.S. (Methyl Green, zinc chloride salt), MILJØSKADELG STOFF |
| · ADR | CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT |
| · IMDG | CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt) |
| · IATA | |
| · 14.3 Transportfareklasse(r) | |
| · ADR | |
| |  |
| · klasse | 8 Etsende stoffer |
| · Fareseddel | 8+6.1 |

(fortsatt på side 7)

NO

Sikkerhetsdatablad
iflg. forordning (EF) nr. 1907/2006, Artikkel 31

Trykkdato: 02.04.2021

revidert den: 02.04.2021

Handelsnavn: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(fortsatt fra side 6)

· **IMDG**

· **Class** 8 Etsende stoffer
· **Label** 8/6.1

· **IATA**

· **Class** 8 Etsende stoffer
· **Label** 8 (6.1)

· **14.4 Emballasjegruppe**

· **ADR, IMDG, IATA** II

· **14.5 Miljøfarer**

Produktet inneholder miljøskadelige stoffer: Methyl Green, zinc chloride salt

· **Marine pollutant:** Symbol (fisk og treet)
· **Spesielle merking (ADR):** Symbol (fisk og treet)

· **14.6 Særlige forsiktighetsregler ved bruk**

Advarsel: Etsende stoffer

· **Farenummer (Kemler-tall):** 86
· **EMS-nummer:** F-A,S-B
· **Stowage Category** B
· **Stowage Code** SW2 Clear of living quarters.

· **14.7 Bulktransport i henhold til vedlegg II til**

MARPOL 73/78 og IBC-regelverket Ikke brukbar.

· **Transport/ytterligere informasjoner:**· **ADR**

· **Begrenset mengde (LQ)** 1 kg
· **Unntatte mengder (EQ)** Kode: E2
Maksimal nettovekt per inneremballasje: 30 g
Maksimal nettovekt per ytteremballasje: 500 g

· **Transportkategori**

2

· **Tunnel restriksjonskode**

E

· **IMDG**

· **Limited quantities (LQ)** 1 kg
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 500 g

· **UN "Model Regulation":**

UN 2923 ETSENDE FAST STOFF, GIFTIG, N.O.S. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, MILJØSKADELG STOFF

NO

(fortsatt på side 8)

Sikkerhetsdatablad
iflg. forordning (EF) nr. 1907/2006, Artikkel 31

Trykkdato: 02.04.2021

revidert den: 02.04.2021

Handelsnavn: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(fortsatt fra side 7)

Avsnitt 15: Opplysninger om regelverk

- **15.1 Særlige bestemmelser / særskilt lovgivning om sikkerhet, helse og miljø for stoffet eller stoffblandingen**
- **Direktiv 2012/18/EU**
- **Spesifiserte farlige stoffer - VEDLEGG I** Inneholder ikke stoffet.
- **Seveso kategori E1**
- **Mengdegrense (i tonn) for anvendelsen av krav til virksomheter på lavere nivå 100 t**
- **Mengdegrense (i tonn) for anvendelsen av krav til virksomheter på høyere nivå 200 t**

- **Direktiv 2011/65/EF om begrensning av bruken av visse farlige stoffer i elektrisk og elektronisk utstyr - Vedlegg II**

Inneholder ikke stoffet.

- **15.2 Vurdering av kjemikaliesikkerhet** En kjemisk sikkerhetsvurdering er ikke utført.

Avsnitt 16: Andre opplysninger

Opplysningene er basert på vårt kjennskap i dag. De utgjør dog ingen forsikring om produktens egenskaper og er ikke grunnlag for noe kontraktsmessig rettsforhold.

- **Forkortelser og akronymer:**

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Akutt giftighet – Kategori 4

Skin Corr. 1B: Hudetsing/hudirritasjon – Kategori 1B

Aquatic Acute 1: Farlig for vannmiljøet - akutt fare for vannmiljøet – Kategori 1

Aquatic Chronic 1: Farlig for vannmiljøet - langsiktig fare for vannmiljøet – Kategori 1

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 02.04.2021

Revisión: 02.04.2021

SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

· 1.1 Identificador del producto

· **Nombre comercial:** *METHYL GREEN, CERTIFIED (CERT NO. DcG-10)*

· **Número del artículo:** 18700

· **Número CAS:**

7114-03-6

· **Número CE:**

230-415-4

· **UFI:** *KKM1-909V-F002-F3UD*

· 1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados

No existen más datos relevantes disponibles.

· **Utilización del producto / de la elaboración** *Sustancias químicas de laboratorio*

· 1.3 Datos del proveedor de la ficha de datos de seguridad

· **Fabricante/distribuidor:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: info@emsdiasum.com

www.emsdiasum.com

Aname

C/ Perez Galdos no. 2

28693 Quijorna

Madrid, Spain

Tel: +34.91.816.89.50

Fax: +34.91.816.85.94

email: ventas@aname.es

· **Área de información:** *Product safety department*

· 1.4 Teléfono de emergencia:

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

SECCIÓN 2: Identificación de los peligros

· 2.1 Clasificación de la sustancia o de la mezcla

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS05 corrosión

Skin Corr. 1B

H314 Provoca quemaduras graves en la piel y lesiones oculares graves.



GHS09 medio ambiente

Aquatic Acute 1 H400 Muy tóxico para los organismos acuáticos.

Aquatic Chronic 1 H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.



GHS07

Acute Tox. 4

H302 Nocivo en caso de ingestión.

(se continua en página 2)

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 02.04.2021

Revisión: 02.04.2021

Nombre comercial: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(se continua en página 1)

- **2.2 Elementos de la etiqueta**
- **Etiquetado con arreglo al Reglamento (CE) n° 1272/2008**
La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.
- **Pictogramas de peligro**



GHS05 GHS07 GHS09

- **Palabra de advertencia Peligro**
- **Componentes peligrosos a indicar en el etiquetaje:**
Methyl Green, zinc chloride salt
- **Indicaciones de peligro**
H302 Nocivo en caso de ingestión.
H314 Provoca quemaduras graves en la piel y lesiones oculares graves.
H410 Muy tóxico para los organismos acuáticos, con efectos nocivos duraderos.
- **Consejos de prudencia**
P303+P361+P353 **EN CASO DE CONTACTO CON LA PIEL (o el pelo):** Quitar inmediatamente toda la ropa contaminada. Enjuagar la piel con agua [o ducharse].
P305+P351+P338 **EN CASO DE CONTACTO CON LOS OJOS:** Enjuagar con agua cuidadosamente durante varios minutos. Quitar las lentes de contacto cuando estén presentes y pueda hacerse con facilidad. Proseguir con el lavado.
P310 Llamarr inmediatamente a un CENTRO DE TOXICOLOGÍA/médico.
P321 Se necesita un tratamiento específico (ver en esta etiqueta).
P405 Guardar bajo llave.
P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.
- **2.3 Otros peligros**
- **Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.

SECCIÓN 3: Composición/información sobre los componentes

- **3.1 Caracterización química: Sustancias**
- **Denominación N° CAS**
7114-03-6 Methyl Green, zinc chloride salt
- **Número(s) de identificación**
- **Número CE:** 230-415-4

SECCIÓN 4: Primeros auxilios

- **4.1 Descripción de los primeros auxilios**
- **Instrucciones generales:**
Quitarse de inmediato toda prenda contaminada con el producto.
En caso de respiración irregular o apnea (paro respiratorio), hágase la respiración artificial.
- **En caso de inhalación del producto:**
Las personas desmayadas deben tenderse y transportarse de lado con la suficiente estabilidad.
- **En caso de contacto con la piel:** Lavar inmediatamente con agua y jabón y enjuagar bien.

(se continua en página 3)

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 02.04.2021

Revisión: 02.04.2021

Nombre comercial: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(se continua en página 2)

- **En caso de con los ojos:**
Limpiar los ojos abiertos durante varios minutos con agua corriente y consultar un médico.
- **En caso de ingestión:**
No provocar el vómito y solicitar asistencia médica inmediata.
Beber mucha agua a respirar aire fresco. Solicitar asistencia médica inmediatamente.
- **4.2 Principales síntomas y efectos, agudos y retardados** No existen más datos relevantes disponibles.
- **4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente**
No existen más datos relevantes disponibles.

SECCIÓN 5: Medidas de lucha contra incendios

- **5.1 Medios de extinción**
- **Sustancias extintoras apropiadas:** Combatir los incendios con medidas adaptados al ambiente circundante.
- **5.2 Peligros específicos derivados de la sustancia o la mezcla** No existen más datos relevantes disponibles.
- **5.3 Recomendaciones para el personal de lucha contra incendios**
- **Equipo especial de protección:** No se requieren medidas especiales.

SECCIÓN 6: Medidas en caso de vertido accidental

- **6.1 Precauciones personales, equipo de protección y procedimientos de emergencia**
Llevar puesto equipo de protección. Mantener alejadas las personas sin protección.
- **6.2 Precauciones relativas al medio ambiente:**
Al penetrar en las aguas o en el alcantarillado, avisar a las autoridades pertinentes.
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
- **6.3 Métodos y material de contención y de limpieza:**
Utilizar un neutralizador.
Desechar el material contaminado como vertido según ítem 13.
Asegurar suficiente ventilación.
- **6.4 Referencia a otras secciones**
Ver capítulo 7 para mayor información sobre una manipulación segura.
Ver capítulo 8 para mayor información sobre el equipo personal de protección.
Para mayor información sobre cómo desechar el producto, ver capítulo 13.

SECCIÓN 7: Manipulación y almacenamiento

- **7.1 Precauciones para una manipulación segura** Desempolvar cuidadosamente.
- **Prevención de incendios y explosiones:** No se requieren medidas especiales.
- **7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades**
- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** No se requieren medidas especiales.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:**
Mantener el recipiente cerrado herméticamente.
- **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

SECCIÓN 8: Controles de exposición/protección individual

- **Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:**
Sin datos adicionales, ver punto 7.

(se continua en página 4)

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 02.04.2021

Revisión: 02.04.2021

Nombre comercial: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(se continua en página 3)

- **8.1 Parámetros de control**
- **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:** Nulo.
- **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.

- **8.2 Controles de la exposición**

- **Equipo de protección individual:**

- **Medidas generales de protección e higiene:**

Mantener alejado de alimentos, bebidas y alimentos para animales.

Quitarse de inmediato la ropa ensuciada o impregnada.

Lavarse las manos antes de las pausas y al final del trabajo.

Evitar el contacto con los ojos.

Evitar el contacto con los ojos y la piel.

- **Protección respiratoria:** No es necesario.

- **Protección de manos:**



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

- **Material de los guantes**

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro.

- **Tiempo de penetración del material de los guantes**

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

- **Protección de ojos:**



Gafas de protección herméticas

SECCIÓN 9: Propiedades físicas y químicas

- **9.1 Información sobre propiedades físicas y químicas básicas**

- **Datos generales**

- **Aspecto:**

- **Forma:**

Sólido

- **Color:**

Verde

- **Olor:**

Inodoro

- **Umbral olfativo:**

No determinado.

- **valor pH:**

No aplicable.

- **Cambio de estado**

- **Punto de fusión/punto de congelación:**

233 °C

- **Punto inicial de ebullición e intervalo de ebullición:** Indeterminado.

- **Punto de inflamación:**

No aplicable.

- **Inflamabilidad (sólido, gas):**

La sustancia no es inflamable.

(se continua en página 5)

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 02.04.2021

Revisión: 02.04.2021

Nombre comercial: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(se continua en página 4)

· Temperatura de descomposición:	No determinado.
· Temperatura de auto-inflamación:	No determinado.
· Propiedades explosivas:	El producto no es explosivo.
· Límites de explosión:	
· Inferior:	No determinado.
· Superior:	No determinado.
· Presión de vapor:	No aplicable.
· Densidad:	Indeterminado.
· Densidad relativa	No determinado.
· Densidad de vapor	No aplicable.
· Tasa de evaporación:	No aplicable.
· Solubilidad en / miscibilidad con	
· agua:	Insoluble.
· Coefficiente de reparto: n-octanol/agua:	No determinado.
· Viscosidad:	
· Dinámica:	No aplicable.
· Cinemática:	No aplicable.
· Contenido de cuerpos sólidos:	100,0 %
· 9.2 Otros datos	No existen más datos relevantes disponibles.

SECCIÓN 10: Estabilidad y reactividad

- **10.1 Reactividad** No existen más datos relevantes disponibles.
- **10.2 Estabilidad química**
- **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.
- **10.3 Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.
- **10.4 Condiciones que deben evitarse** No existen más datos relevantes disponibles.
- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda**
Nocivo en caso de ingestión.
- **Efecto estimulante primario:**
- **Corrosión o irritación cutáneas**
Provoca quemaduras graves en la piel y lesiones oculares graves.
- **Lesiones o irritación ocular graves**
Provoca quemaduras graves en la piel y lesiones oculares graves.
- **Sensibilización respiratoria o cutánea**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**
- **Mutagenicidad en células germinales**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Carcinogenicidad** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

(se continua en página 6)

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 02.04.2021

Revisión: 02.04.2021

Nombre comercial: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(se continua en página 5)

- **Toxicidad para la reproducción** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición única**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición repetida**
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

SECCIÓN 12: Información ecológica

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.
- **Efectos ecotóxicos:**
- **Observación:** Muy tóxico para peces.
- **Indicaciones medioambientales adicionales:**
- **Indicaciones generales:**
Nivel de riesgo para el agua 3 (autoclasiificación): muy peligroso para el agua
No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados, ni siquiera en pequeñas cantidades.
En estado no diluido o no neutralizado, no verter en el alcantarillado o en otros sistemas de desagüe.
Una cantidad ínfima vertida en el subsuelo ya representa un peligro para el agua potable.
Vertido en aguas superficiales, también es tóxico para los peces y el plancton.
muy tóxico para organismos acuáticos
- **12.5 Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.
- **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

SECCIÓN 13: Consideraciones relativas a la eliminación

- **13.1 Métodos para el tratamiento de residuos**
- **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.
- **Embalajes sin limpiar:**
- **Recomendación:** Eliminar conforme a las disposiciones oficiales.

SECCIÓN 14: Información relativa al transporte

- **14.1 Número ONU**
- **ADR, IMDG, IATA** UN2923
- **14.2 Designación oficial de transporte de las Naciones Unidas**
- **ADR** 2923 SÓLIDO CORROSIVO, TÓXICO, N.E.P. (Methyl Green, zinc chloride salt), PELIGROSO PARA EL MEDIO AMBIENTE
- **IMDG** CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt), MARINE POLLUTANT
- **IATA** CORROSIVE SOLID, TOXIC, N.O.S. (Methyl Green, zinc chloride salt)

(se continua en página 7)

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 02.04.2021

Revisión: 02.04.2021

Nombre comercial: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(se continua en página 6)

· **14.3 Clase(s) de peligro para el transporte**

· **ADR**



· **Clase** 8 Materias corrosivas
 · **Etiqueta** 8+6.1

· **IMDG**



· **Class** 8 Materias corrosivas
 · **Label** 8/6.1

· **IATA**



· **Class** 8 Materias corrosivas
 · **Label** 8 (6.1)

· **14.4 Grupo de embalaje**

· **ADR, IMDG, IATA** II

· **14.5 Peligros para el medio ambiente:**

El producto contiene materias peligrosas para el medio ambiente: Methyl Green, zinc chloride salt

· **Contaminante marino:** Símbolo (pez y árbol)
 · **Marcado especial (ADR):** Símbolo (pez y árbol)

· **14.6 Precauciones particulares para los usuarios**

Atención: Materias corrosivas

· **Número de identificación de peligro (Número Kemler):** 86
 · **Número EMS:** F-A,S-B
 · **Stowage Category** B
 · **Stowage Code** SW2 Clear of living quarters.

· **14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC**

No aplicable.

· **Transporte/datos adicionales:**

· **ADR**

· **Cantidades limitadas (LQ)** 1 kg
 · **Cantidades exceptuadas (EQ)** Código: E2
 Cantidad neta máxima por envase interior: 30 g
 Cantidad neta máxima por embalaje exterior: 500 g
 · **Categoría de transporte** 2
 · **Código de restricción del túnel** E

(se continua en página 8)

Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 02.04.2021

Revisión: 02.04.2021

Nombre comercial: METHYL GREEN, CERTIFIED (CERT NO. DcG-10)

(se continua en página 7)

<ul style="list-style-type: none"> · IMDG · Limited quantities (LQ) · Excepted quantities (EQ) 	<p>1 kg Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g</p>
<ul style="list-style-type: none"> · "Reglamentación Modelo" de la UNECE: 	<p>UN 2923 SÓLIDO CORROSIVO, TÓXICO, N.E.P. (METHYL GREEN, ZINC CHLORIDE SALT), 8 (6.1), II, PELIGROSO PARA EL MEDIO AMBIENTE</p>

SECCIÓN 15: Información reglamentaria

- **15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**
- **Directiva 2012/18/UE**
- **Sustancias peligrosas nominadas - ANEXO I** No contiene la sustancia.
- **Categoría Seveso E1** Peligroso para el medio ambiente acuático
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel inferior** 100 t
- **Cantidad umbral (toneladas) a efectos de aplicación de los requisitos de nivel superior** 200 t
- **Directiva 2011/65/UE sobre restricciones a la utilización de determinadas sustancias peligrosas en aparatos eléctricos y electrónicos - Anexo II**
- No contiene la sustancia.
- **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

- **Abreviaturas y acrónimos:**
- 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
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Toxicidad aguda - oral – Categoría 4
- Skin Corr. 1B: Corrosión o irritación cutáneas – Categoría 1B
- Aquatic Acute 1: Peligroso para el medio ambiente acuático - peligro acuático agudo – Categoría 1
- Aquatic Chronic 1: Peligroso para el medio ambiente acuático - peligro acuático a largo plazo – Categoría 1