*Printing date 01/17/2023* 

Reviewed on 01/17/2023

### **1 Identification**

- · Product identifier
- · Trade name: METHYL GREEN PYRONIN Y SOLUTION
- · Article number: 18710-02, 18710-05
- · CAS Number:
- 7732-18-5
- · EC number:
- 231-791-2
- · 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 <u>CCN7661</u> 1-703-527-3887

## 2 Hazard(s) identification

· Classification of the substance or mixture



Acute Toxicity - Oral 4 H302 Harmful if swallowed.

Skin Irritation 2 H315 Causes skin irritation.

*Eye Irritation 2A* H319 Causes serious eye irritation.

· Label elements

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



· Signal word Warning

Hazard-determining components of labeling: Methyl Green, zinc chloride salt
Hazard statements Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.
Precautionary statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection / face protection.

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(Contd. of page 1)
If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth.
If on skin: Wash with plenty of water.
Specific treatment (see on this label).
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.
If eye irritation persists: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 2
Fire = $0$
2 $0$ Reactivity = 0
· HMIS-ratings (scale 0 - 4)
<b>HEALTH</b> 2 $Health = 2$
FIRE 0 $Fire = 0$
REACTIVITY 0 Reactivity = 0
· Other hazards
· Results of PBT and vPvB assessment
• <b>PBT:</b> Not applicable.
• <b>vPvB:</b> Not applicable.
3 Composition/information on ingredients
· Chemical characterization: Substances
· CAS No. Description
7732-18-5 Deionized Water, Reagent Grade A.C.S.
· Identification number(s) · EC number: 231-791-2
· EC number: 231-791-2 · Dangerous components:
7114-03-6       Methyl Green, zinc chloride salt       \$\alpha\$2.5%
4 First-aid measures
Description of first aid magnuros

 $\cdot$  Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- 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. If symptoms persist, consult a doctor.
- · After swallowing: Immediately call a doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *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 Not required.
- *Environmental precautions: Dilute with plenty of water.*
- Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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
- Protective Action Criteria for Chemicals

   PAC-1:

   67-66-3
   CHLOROFORM, REAGENT ACS

   PAC-2:

   67-66-3
   CHLOROFORM, REAGENT ACS

   67-66-3
   CHLOROFORM, REAGENT ACS

   67-66-3
   CHLOROFORM, REAGENT ACS

   67-66-3
   CHLOROFORM, REAGENT ACS

67-66-3 CHLOROFORM, REAGENT ACS

## 7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · 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.

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3,200 ppm

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# 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 and skin. · Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. · 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 O DL inal

9 Physical and chemical properties				
· Information on basic physical and chemical properties				
· General Information				
· Appearance:				
Form:	Liquid			
Color:	Dark green			
· Odor:	Characteristic			
· Odor threshold:	Not determined.			
· pH-value:	Not determined.			
· Change in condition				
Melting point/Melting range:	0 °C (32 °F)			
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		(Contd. of page
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	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 at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density at 20 °C (68 °F):	0.7 g/cm <sup>3</sup> (5.8415 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
Dynamic at 20 °C (68 °F):	0.952 mPas	
Kinematic:	Not determined.	
Water:	99.4 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.6 %	
• 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:
- $\cdot$  on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.

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2B

R

• Additional toxicological information:
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- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

67-66-3 CHLOROFORM, REAGENT ACS

· NTP (National Toxicology Program)

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· OSHA-Ca (Occupational Safety Health Administration)

None of the ingredients is 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.
- · Additional ecological information:

· General notes:

- Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.
- · 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.*
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

### 14 Transport information · UN-Number · DOT, ADR, IMDG, IATA Void · UN proper shipping name · DOT, ADR, IMDG, IATA Void · Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class Void (Contd. on page 7) US

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		(Contd. of page 6)
· Packing group · DOT, ADR, IMDG, IATA	Void	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex II MARPOL73/78 and the IBC Code	of Not applicable.	
· UN "Model Regulation":	Void	

# **15 Regulatory information**

Section 355 (extremely hazardous substances):	
67-66-3 CHLOROFORM, REAGENT ACS	
Section 313 (Specific toxic chemical listings):	
67-66-3 CHLOROFORM, REAGENT ACS	
TSCA (Toxic Substances Control Act):	
7732-18-5 Deionized Water, Reagent Grade A.C.S.	ACTIV
92-32-0 3,6-bis(dimethylamino)xanthylium chloride	ACTIV
67-66-3 CHLOROFORM, REAGENT ACS	ACTIV
Hazardous Air Pollutants	
67-66-3 CHLOROFORM, REAGENT ACS	
Proposition 65	
Chemicals known to cause cancer:	
67-66-3 CHLOROFORM, REAGENT ACS	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
67-66-3 CHLOROFORM, REAGENT ACS	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
67-66-3 CHLOROFORM, REAGENT ACS	B2, L, N
TLV (Threshold Limit Value)	I
	A
67-66-3 CHLOROFORM, REAGENT ACS	
NIOSH-Ca (National Institute for Occupational Safety and Health)	

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### Trade name: METHYL GREEN - PYRONIN Y SOLUTION

(Contd. of page 7) · Hazard pictograms GHS07 · Signal word Warning · Hazard-determining components of labeling: Methyl Green, zinc chloride salt · Hazard statements Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. · Precautionary statements Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection / face protection. If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. Specific treatment (see on this label). If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If eve irritation persists: Get medical advice/attention. 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.

· Contact:

· Date of preparation / last revision 01/17/2023 · Abbreviations and acronyms: ADR: Accord relatif au transport international 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 EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) 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 Toxicity - Oral 4: Acute toxicity - Category 4 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A