

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

Printing date 27.10.2023

Version number 1

Revision: 27.10.2023

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

##### · 1.1 Product identifier

· **Product name:** CU 2 Porphyrin F10 / F25

· **Chemical Identification:** Sodium dithionite

· **Catalog number:** 00530241, 00530249, 530240, 00530681, 00530689, 530680

· **CAS No.:**  
7775-14-6

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

· **Application of the substance / the preparation:** Reagent for water analysis

##### · 1.3 Details of the supplier of the safety data sheet

##### · **Supplier:**

Tintometer GmbH  
Schleefstraße 8-12  
44287 Dortmund  
Made in Germany  
www.lovibond.com

phone: +49 (0)231 94510-0  
e-mail: sales@lovibond.com

The Tintometer Limited  
Lovibond® House  
Sun Rise Way  
Amesbury  
Wiltshire SP4 7GR  
United Kingdom

phone : +44 1980 664800  
e-mail: SDS@lovibond.uk

· **Informing department:**  
e-mail: sds@lovibond.com  
Product Safety Department

· **1.4 Emergency telephone number:**  
+44 1235 239670  
Languages: English

#### SECTION 2: Hazards identification

##### · 2.1 Classification of the substance or mixture

##### · Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Self-heat. 1 H251 Self-heating: may catch fire.



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 GB CLP regulation.

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**Product name: CU 2 Porphyrin F10 / F25**

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**Hazard pictograms**


GHS02 GHS07

**Signal word** Danger

**Hazard-determining components of labelling:**

sodium dithionite

**Hazard statements**

H251 Self-heating: may catch fire.

H302 Harmful if swallowed.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection.

P235+P410 Keep cool. Protect from sunlight.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P330 Rinse mouth.

P302+P352 IF ON SKIN: Wash with plenty of water.

**Additional information:**

EUH031 Contact with acids liberates toxic gas.

EUH208 Contains methenamine. May produce an allergic reaction.

**2.3 Other hazards** No further relevant information available.

**Results of PBT and vPvB assessment**

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

**3.1 Substances**
**CAS No. Designation:**

CAS: 7775-14-6 sodium dithionite

**Identification number(s):**

EC No: 231-890-0

**Index No:** 016-028-00-1

**Acute toxicity estimate (ATE) values** LD50 oral: 500 mg/kg

**Dangerous components:**

CAS: 7775-14-6 EINECS: 231-890-0 Index No: 016-028-00-1	sodium dithionite ⚠ Self-heat. 1, H251; ⚠ Acute Tox. 4, H302, EUH031 ATE: LD50 oral: 500 mg/kg	>70 - <90%
CAS: 497-19-8 EINECS: 207-838-8 Index No: 011-005-00-2 Reg.nr.: 01-2119485498-19-XXXX	sodium carbonate ⚠ Eye Irrit. 2, H319	>1 - <10%
CAS: 100-97-0 EINECS: 202-905-8 Index No: 612-101-00-2 Reg.nr.: 01-2119474895-20-XXXX	methenamine ⚠ Flam. Sol. 2, H228; ⚠ Skin Sens. 1, H317	0.1-<1%

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information** Instantly remove any clothing soiled by the product.

**After inhalation** Supply fresh air; consult doctor in case of symptoms.

**After skin contact**

Instantly rinse with water.

If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact** Rinse opened eye for several minutes (at least 15 min) under running water. Then consult doctor.

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- **After swallowing**  
Rinse out mouth and then drink 1-2 glasses of water.  
Seek medical treatment.
  - **4.2 Most important symptoms and effects, both acute and delayed:**  
allergic reactions  
irritations  
after inhalation:  
mucosal irritations, cough, shortness of breath  
after swallowing of large amounts:  
sickness  
vomiting  
gastric or intestinal trouble  
diarrhoea  
pain
  - **Danger**  
Sulphites are strong sensitizers.  
risk of skin sensitization
  - **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** CO<sub>2</sub>, sand, extinguishing powder.
  - **For safety reasons unsuitable extinguishing agents**  
Water  
--> exothermic reaction  
If possible use dry extinguishing agents.
  - **5.2 Special hazards arising from the substance or mixture**  
combustible  
Risk of spontaneous combustion!  
Formation of toxic gases is possible during heating or in case of fire.  
Can be released in case of fire:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide (CO)  
Sodium oxide  
Sulphur oxides (SO<sub>x</sub>)
  - **5.3 Advice for firefighters**
  - **Protective equipment:**  
Wear self-contained breathing apparatus.  
Wear full protective suit.
  - **Additional information**  
Collect contaminated fire fighting water separately. It must not enter drains.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Ambient fire may liberate hazardous vapours.
- 

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
- **Advice for non-emergency personnel:**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Avoid causing dust.
- **Advice for emergency responders:**  
Put on breathing apparatus.  
Protective equipment: see section 8
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Collect mechanically.  
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
- **Advice on safe handling:**
  - Prevent formation of dust.
  - Protect from heat.
  - Keep ignition sources away - Do not smoke.
- **Hygiene measures:**
  - Avoid contact with the eyes.
  - Avoid contact with the skin.
  - Take off immediately all contaminated clothing.
  - Wash hands during breaks and at the end of the work.
  - Do not eat, drink or smoke when using this product.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and containers:**
  - Store in cool location.
  - Store only in the original container.
  - Protect from heat.
- **Information about storage in one common storage facility:**
  - Do not store together with acids.
  - see chapter 10
- **Further information about storage conditions:**
  - Store in cool, dry conditions in well sealed containers.
  - Protect from heat and direct sunlight.
  - Protect from the effects of light.
  - Protect from humidity and keep away from water.
- **Recommended storage temperature:** 20°C +/- 5°C
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.

- **DNELs**  
Derived No Effect Level (DNEL)

**CAS: 7775-14-6 sodium dithionite**

Dermal	DNEL	8.8 mg/kg (Worker / long-term /systemic effects)
Inhalative	DNEL	10 mg/m <sup>3</sup> (Worker / long-term /systemic effects)

**CAS: 497-19-8 sodium carbonate**

Inhalative	DNEL	10 mg/m <sup>3</sup> (Worker / long-term / local effects)
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**CAS: 100-97-0 methenamine**

Dermal	DNEL	8.8 mg/kg (Worker / long-term /systemic effects)
Inhalative	DNEL	31 mg/m <sup>3</sup> (Worker / long-term /systemic effects)

- **Recommended monitoring procedures:**  
Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

- **PNECs**  
Predicted No Effect Concentration (PNEC)

**CAS: 7775-14-6 sodium dithionite**

PNEC	45.3 mg/l (Sewage treatment plant)
	0.1 mg/l (Marine water)
	1 mg/l (Fresh water)

**CAS: 100-97-0 methenamine**

PNEC	100 mg/l (Sewage treatment plant)
	0.5 mg/l (Marine water)

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	2.4 mg/l (Fresh water sediment)
	3 mg/l (Fresh water)

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Engineering measures:**  
Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See item 7.
- **Individual protection measures, such as personal protective equipment**  
Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled.
- **Eye/face protection**  
Safety glasses  
Use safety glasses that have been tested and approved in accordance with government standards such as EN 166.
- **Hand protection**  
Protective gloves.  
Preventive skin protection by use of skin-protecting agents is recommended.  
After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**  
nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.11$  mm
- **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.  
Breakthrough time: > 480 min
- **Other skin protection (body protection):** Protective work clothing.
- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Combination filter B-P2
- **Environmental exposure controls**  
Avoid release to the environment.  
Do not allow product to reach sewage system or water bodies.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **Physical state** Solid.
- **Form:** Powder
- **Colour:** Whitish
- **Odour:** Pungent
- **Odour threshold:** Not determined.
- **Melting point/Freezing point:**  $\sim 100^{\circ}\text{C}$
- **Boiling point or initial boiling point and boiling range** Prior to or during boiling decomposition occurs.
- **Flammability** The substance is capable of catching fire or being set on fire.
- **Explosive properties:** The product is not capable of dust explosion in the form supplied; enrichment with fine dust causes risk of dust explosion
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not applicable (solid).
- **Flash point:**  $> 100^{\circ}\text{C}$  (DIN 51758; Merck)
- **Auto-ignition temperature:** Not applicable.
- **Decomposition temperature:**  $> 80^{\circ}\text{C}$
- **pH (10 g/l) at  $20^{\circ}\text{C}$**   $\sim 3$
- **Kinematic viscosity** Not applicable (solid).
- **Solubility**
- **Water at  $20^{\circ}\text{C}$ :** 250 g/l  
Hydrolized
- **Partition coefficient n-octanol/water (log value)**  $< -4.7$  log POW
- **Vapour pressure:** Not applicable (solid).
- **Density and/or relative density**
- **Density at  $20^{\circ}\text{C}$ :**  $2.5$  g/cm<sup>3</sup>
- **Relative density:** Not determined.
- **Relative gas density** Not applicable (solid).

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· <b>Particle characteristics</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Information with regard to physical hazard classes</b>	
· <b>Corrosive to metals</b>	Void
· <b>Other safety characteristics</b>	
· <b>Oxidising properties:</b>	none
· <b>Additional information</b>	
· <b>Solids content:</b>	100 %
· <b>Molecular formula</b>	Na <sub>2</sub> O <sub>4</sub> S <sub>2</sub>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Forms explosive mixtures with air on intense heating.  
Risk of dust explosion if enriched with fine dust in presence of air
- **10.2 Chemical stability** Stable at ambient temperature (room temperature).
- **10.3 Possibility of hazardous reactions**  
Reacts with water.  
Contact with acids releases toxic gases  
Self igniting at raised temperature  
Reacts with moist air  
Reacts with oxidizing agents
- **10.4 Conditions to avoid**  
Heating (decomposition)  
Exposure to moisture.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** see section 5

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed.

**LD/LC50 values that are relevant for classification:**

<b>CAS: 7775-14-6 sodium dithionite</b>		
Oral	LD50	500 mg/kg (ATE)
	LD50.	2500 mg/kg (rat) (IUCLID)
<b>CAS: 497-19-8 sodium carbonate</b>		
Oral	LD50	2800 mg/kg (rat) (Registrant, ECHA)
	LDLo	714 mg/kg (human) (RTECS)
Dermal	LD50.	>2000 mg/kg (rabbit) (US-EPA) (Registrant, ECHA: No deaths occurred at this concentration)
Inhalative	LC50	5750 mg/l/2h (rat) (OECD 403)
<b>CAS: 100-97-0 methenamine</b>		
Oral	LD50	9200 mg/kg (rat) (IUCLID)
Dermal	LD50.	>2000 mg/kg (rat) (OECD 402)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Information on components:**  
CAS 100970-97-0: chronic: dermatitis

<b>CAS: 7775-14-6 sodium dithionite</b>		
Irritation of skin	OECD 404	(rabbit: no irritation)

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<b>CAS: 497-19-8 sodium carbonate</b>		
Irritation of skin	OECD 404	(rabbit: slight irritation)
Irritation of eyes	OECD 405	(rabbit: irritation) (US-EPA)
<b>CAS: 100-97-0 methenamine</b>		
Irritation of skin	OECD 404	(rabbit: no irritation)
Irritation of eyes	OECD 405	(rabbit: no irritation)

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **Information on components:**

Contains methenamine. May produce an allergic reaction.

<b>CAS: 100-97-0 methenamine</b>		
Sensitisation	OECD 406	(guinea pig: positive)
	Patch test (human)	(positive) (IUCLID)

· **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.

· **Information on components:**

OECD 414: Teratogenicity testing

OECD 473: Mutagenicity testing

OECD 471, 474, 476, 487: Germ cell mutagenicity testing

<b>CAS: 497-19-8 sodium carbonate</b>		
OECD 471	(Bacterial Reverse Mutation Test - Ames test) negative / Escherichia coli	
<b>CAS: 100-97-0 methenamine</b>		
OECD 471	(negative) (Bacterial Reverse Mutation Test - Ames test)	
OECD 474	(negative) (Mammalian Erythrocyte Micronucleus Test) (IUCLID)	

· **STOT (specific target organ toxicity) -single exposure** Based on available data, the classification criteria are not met.

· **STOT (specific target organ toxicity) -repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

<b>CAS: 7775-14-6 sodium dithionite</b>	
.	(source: GESTIS) From general professional experience, an irritating effect on the mucous membranes is pointed out. An irritating effect on the eyes was demonstrated in several tests on the rabbit eye. Irrespective of the low general toxicity, however, it should be taken into account that released bisulfite/sulfite can trigger acute hypersensitivity reactions in sulfite-sensitive people (often asthmatics) (usually after oral or inhalative intake of small doses).

· **11.2 Information on other hazards**

· **Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

· **Other information**

According to the information available to us, the chemical, physical and toxicological properties of the substances mentioned in Chapter 3 have not been thoroughly investigated.

## SECTION 12: Ecological information

· **12.1 Toxicity**

<b>· Aquatic toxicity:</b>	
<b>CAS: 7775-14-6 sodium dithionite</b>	
EC50	98 mg/l/48h (Daphnia magna) MERCK
IC50	206 mg/l/72h (Desmodesmus subspicatus) MERCK
LC50	46–68 mg/l/96h (gold orfe) (DIN 38412) (Merck)

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<b>CAS: 497-19-8 sodium carbonate</b>	
EC50	220–227 mg/l/48h (Daphnia magna) (US-EPA) (Merck)
LC50	300 mg/l/96h (bluegill) (IUCLID) (Registrant, ECHA)
<b>CAS: 100-97-0 methenamine</b>	
EC50	36 mg/l/48h (Daphnia magna) (IUCLID)
EC10	5 mg/l (fish)
LC50 (static)	41 mg/l/96h (bluegill) (US-EPA)
· <b>Bacterial toxicity:</b>	
<b>CAS: 7775-14-6 sodium dithionite</b>	
EC50	107 mg/l (Pseudomonas putida) (IUCLID)
<b>CAS: 100-97-0 methenamine</b>	
EC50 (static)	>5000 mg/l (Bacterial toxicity) (DIN 38412) (Merck, Vibrio fischeri)
· <b>12.2 Persistence and degradability</b>	
<b>CAS: 100-97-0 methenamine</b>	
OECD 302 C	39–47 % / 28 d (not readily biodegradable) (Modified MITI Test (II))
· <b>Other information:</b> Methods for the determination of biodegradability are not applicable to inorganic substances.	
· <b>12.3 Bioaccumulative potential</b>	
<b>CAS: 7775-14-6 sodium dithionite</b>	
log Pow	<-4.7 (.) (calculated)
<b>CAS: 100-97-0 methenamine</b>	
log Pow	-2.84 (.) (experimental) (IUCLID)
· <b>12.4 Mobility in soil</b> No further relevant information available.	
· <b>12.5 Results of PBT and vPvB assessment</b> Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.	
· <b>12.6 Endocrine disrupting properties</b> The product does not contain substances with endocrine disrupting properties.	
· <b>12.7 Other adverse effects</b> Reacts with water to form toxic decomposition products. Avoid transfer into the environment.	
· <b>Water hazard:</b> Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.	

## SECTION 13: Disposal considerations

### · 13.1 Waste treatment methods

#### · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Hand over to disposers of hazardous waste.

#### · European waste catalogue

16 05 07\* | discarded inorganic chemicals consisting of or containing hazardous substances

#### · Uncleaned packagings:

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

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

## SECTION 14: Transport information

### · 14.1 UN number or ID number

#### · ADR, IMDG, IATA

UN1384

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<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul>	<p>1384 SODIUM DITHIONITE (SODIUM HYDROSULPHITE) SODIUM DITHIONITE (SODIUM HYDROSULPHITE)</p>
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>4.2 (S4) Substances liable to spontaneous combustion. 4.2</p>
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>4.2 Substances liable to spontaneous combustion. 4.2</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	<p>II</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> </ul>	<p>Warning: Substances liable to spontaneous combustion. 40 F-A,S-J</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>0 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"> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	<p>2 D/E</p>
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	<p>0 Code: E2 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g</p>

### SECTION 15: Regulatory information

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

- **Poisons Act UK**

- **Regulated explosives precursors**

CAS: 100-97-0 | methenamine

Listed

- **Regulated poisons**

None of the ingredients is listed.

- **Reportable explosives precursors**

None of the ingredients is listed.

- **Reportable poisons**

None of the ingredients is listed.

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**Regulation (EU) 2019/1148 on the marketing and use of explosives precursors**

This product is regulated by Regulation (EU) 2019/1148:

All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Please see <https://ec.europa.eu>
**explosives precursors - ANNEX II**

CAS: 100-97-0 | methenamine

**Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (PIC)**

None of the ingredients is listed.

**Regulation (EC) No 1334/2000 setting up a Community regime for the control of exports of dual-use items and technology:**

None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**Regulation (EC) No 1005/2009 on substances that deplete the ozone layer:**

None of the ingredients is listed.

**REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)**

None of the ingredients is listed.

**LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**

None of the ingredients is listed.

**Substances of very high concern (SVHC) according to REACH, Article 57**
This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).
**Substances of very high concern (SVHC) according to UK REACH**
This product does not contain any substances of very high concern above the legal concentration limit of  $\geq 0.1\%$  (w / w).
**Directive 2012/18/EU (SEVESO III):**
**Named dangerous substances - ANNEX I** Substance is not listed.

**Information about limitation of use:** Not required.

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

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Training hints** Provide adequate information, instruction and training for operators.

**Relevant phrases**

H228 Flammable solid.

H251 Self-heating: may catch fire.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

EUH031 Contact with acids liberates toxic gas.

**Abbreviations and acronyms:**

OECD: Organisation for Economic Co-operation and Development

STOT: specific target organ toxicity

SE: single exposure

RE: repeated exposure

EC50: half maximal effective concentration

IC50: half maximal inhibitory concentration

NOEL or NOEC: No Observed Effect Level or Concentration

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

ELINCS: European List of Notified Chemical Substances

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

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# Safety data sheet

## according to 1907/2006/EC, Article 31

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**Product name: CU 2 Porphyrin F10 / F25**

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DNEL: Derived No-Effect Level (UK REACH)  
PNEC: Predicted No-Effect Concentration (UK REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Sol. 2: Flammable solids – Category 2  
Self-heat. 1: Self-heating substances and mixtures – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Skin Sens. 1: Skin sensitisation – Category 1

**Sources**

Data arise from safety data sheets, reference works and literature.

GESTIS- Stoffdatenbank (Substance Database, Germany)

IUCLID (International Uniform Chemical Information Database)

RTECS (Registry of Toxic Effects of Chemical Substances )

· \* **Data compared to the previous version altered.**

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