

# SAFETY DATA SHEET



In accordance with (EU) Nr. 1907/2006 Revision Date: 30.11.2020 replace Vers.from 17.01.2019

**Tradename: MIXOL® ME 1 Gold**

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## SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1. Product identifier

Tradename: MIXOL®ME 1Gold

UFI: 6VFW-60SQ-YR0V-TT4G

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

Relevante identified uses of the substance or mixture

Industry sector: Industrial Performance Chemicals  
Paints, lacquers and varnishes industry  
Polymers industry  
Printing Inks Industry

Type of use: Colourant preparation

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

Identification of the company:

MIXOL-PRODUKTE  
Diebold GmbH  
Carl-Zeiss-Str. 17-19  
73230 Kirchheim/Teck  
Phone: 0049 / 7021 / 950090  
Fax: 0049 / 7021 / 56030

Information to substance / mixture:

Division: Technics  
Phone: +49(0)7021 / 950090  
E-mail: Technik@mixol.de

### 1.4. Emergency telephone number

GBK Gefahrgut Büro GmbH, Ingelheim, Germany  
Emergency CONTACT (24h): +49 6132-84463

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance / mixture

Classification (REGULATION (EC) No 1272/2008):

Acute toxicity, Category 4	H302 Harmful if swallowed
Eye irritation, Category 2	H319 Causes serious eye irritation
Short-term (acute) aquatic hazard, Category 1	H400 Very toxic to aquatic life
Long-term (chronic) aquatic hazard, Category 1	H410 Very toxic to aquatic life with long lasting effects

### 2.2. Label elements

Labeling (REGULATION (EC) No 1272/2008):

Hazard pictograms :



Signal word:

Warning

Hazard statements:

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.  
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements: **Prevention:**  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.

**Response:**  
P337 + P313 If eye irritation persists: Get medical advice / attention.  
P391 Collect spillage.

**Disposal:**  
P501 Dispose of contents / container to an approved waste disposal plant.

Hazard components which must be listed on the label:

Copper

## Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).  
May produce an allergic reaction.

### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: COMPOSITION / INFORMATION TO INGREDIENTS

### 3.1. Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. INDEX No. Registration No.	Classification (Regulation (EC) Nr. 1272/2008)	Concentration (%w/w)
Copper	7440-50-8 231-159-6  01-2119480154-42	Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 25 - < 50
Zinc powder – zinc dust (stabilized)	7440-66-6 231-175-3 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 2,5 - < 10
salt of polyamineamide, (72243/00/2008.0023 Germany	Not Assigned	Skin Irrit. 2; H315	≥ 1 - < 10
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	≥ 0.0025 - < 0.025
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318	≥ 0.0002 - < 0.0015

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		Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
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For explanation of abbreviations see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice:

Move the victim to fresh air.  
Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

#### If inhaled:

If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

#### In case of skin contact:

Wash off immediately with soap and a plenty of water.  
If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

#### In case of eye contact:

Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

#### If swallowed:

Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

#### Risks:

Harmful if swallowed.  
Causes serious eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

This information is not available.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media:

#### Suitable extinguishing media:

Special powder against metal fire  
Dry sand  
ABC-Powder

#### Exinction agents, not suitable out of safety reasons:

Water  
High volume water jet

### 5.2. Special hazards arising from the substance or mixture

#### Specific hazards during firefighting:

Do not allow run-off from fire fighting to enter drains or water courses.

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary.

#### Further information:

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Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Collect contaminated fire extinguishing water separately.

This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Personal precautions:

Evacuate personal to save areas.

Ensure adequate ventilation.

Use personal protective equipment.

### 6.2. Environment precautions

Environmental precautions:

Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up:

Use mechanical handling equipment.

Pick up and transfer to properly labelled containers.

Do not flush with water.

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

### 6.4. Cross Reference to other sections

Additional information:

For personal protection see Section 8.

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## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling:

Do not breath vapours/dust.

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating, drinking should be prohibited in the application area.

Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion:

Keep away from heat an sources of ignition.

No smoking.

Normal measures for preventive fire protection.

Hygiene measures:

General industrial hygiene practice.

When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and the end of workday.

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

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## Requirements for storage areas and containers:

Keep away from sources of ignition - No smoking.

Do not store near combustible materials.

Keep containers tightly closed in a cool, well-ventilated place.

To maintain product quality, do not store in heat or direct sunlight.

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Electrical installations / working materials must comply with the technological safety standards.

## Further information on storage conditions:

Protect from humidity and water.

## Storage stability:

Storage stability of at least 18 month.

## Advice on common storage:

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Do not store together with oxidizing and self-igniting products.

## Dampness:

Keep in a dry, cool and well-ventilated place.

## Further information on storage stability:

No decomposition if stored and applied as directed.

### 7.3. Specific end use(s)

This information is not available.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational Exposure Limits

Components	CAS.No.:	Value type (Form of exposure)	Control- parameters	Basis (Version Date)
copper	7440-50-8	TWA (Fumes)	0,2 mg/m <sup>3</sup> (Copper)	GB EH40
		TWA (Dusts and mists)	1 mg/m <sup>3</sup> (Copper)	GB EH40
		STEL (Dusts and mists)	2 mg/m <sup>3</sup> (Copper)	GB EH40
zinc powder - zinc dust (stabilized)	7440-66-6	TWA (Inhalable)	10 mg/m <sup>3</sup>	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg/m <sup>3</sup> 8-hour TWA of inhalable dust or 4 mg/m <sup>3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.			
		TWA (Respirable fraction)	4 mg/m <sup>3</sup>	GB EH40
Further information	The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg/m <sup>3</sup> 8-hour TWA of inhalable dust or 4 mg/m <sup>3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned			

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	specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.			
silicon dioxide	7631-86-9	TWA (inhalable dust)	6 mg/m <sup>3</sup> (Silica)	GB EH40
Further information	<p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis of respirable, thoracic and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg/m<sup>3</sup> 8-hour TWA of inhalable dust or 4 mg/m<sup>3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.</p>			
		TWA (Respirable dust)	2,4 mg/m <sup>3</sup> (Silica)	GB EH40
Further information	<p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg/m<sup>3</sup> 8-hour TWA of inhalable dust or 4 mg/m<sup>3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.</p>			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

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Substance name	End Use	Exposure routes	Potential health effects	Value
copper	Workers	Skin contact	Long-term – systemic effects	137 mg/kg
	Workers	Skin contact	Acute systemic – effects	273 mg/kg
	Consumers	Inhalation	Long-term – local effects	1 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	1 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term – systemic effects	137 mg/kg
	Consumers	Skin contact	Acute systemic – effects	273 mg/kg
	Consumers	Ingestion	Long-term – systemic effects	0.041 mg/kg
zinc powder - zinc dust (stabilized)	Workers	Inhalation	Long term – systemic effects	5 mg/m <sup>3</sup>
	Workers	Skin contact	Long term – systemic effects	83 mg/kg
	Consumers	Inhalation	Long term – systemic effects	2.5 mg/m <sup>3</sup>
	Consumers	Skin contact	Long term – systemic effects	83 mg/kg
	Consumers	Ingestion	Long term – systemic effects	0.83 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
copper	Fresh water	0.0078 mg/l
	Marine water	0.0052 mg/l
	STP	0.230 mg/l
	Fresh water sediment	87 mg/kg
	Marine sediment	676 mg/kg
	Soil	65 mg/kg
	zinc powder - zinc dust (stabilized)	Fresh water
Marine water		0.0061 mg/l
STP		0.100 mg/l
Fresh water sediment		235.6 mg/kg
Marine sediment		121 mg/kg
Soil		106.8 mg/kg
1,2-benzisothiazol-3(2H)-one	Fresh water	0.00403 mg/l
	Marine water	0.000403 mg/l

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	STP	0.00103 mg/l
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## 8.2. Exposure controls

### Personal protective equipment

#### Eye protection:

Safety glasses

Wear face-shield and protective suit for abnormal processing problems.

#### Hand protection

Material: Solvent-resistant gloves (butyl-rubber)

Remarks: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.  
Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Recommended preventive skin protection.  
Skin should be washed after contact.  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

#### Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

#### Respiratory protection:

Use suitable breathing protection if workplace concentration requires.

Equipment should conform to EN 14387

### Environmental exposure controls

#### Water:

The product should not be allowed to enter drains, water courses or the soil.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Appearance

Physical state:	liquid
Colour:	gold
Odour:	characteristic
Odour Threshold:	No data available
pH:	6 – 8
	Concentration: 100%
Freezing point:	No data available
Boiling point/boiling range:	> 100 °C
Flash point:	> 100 °C
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Self-ignition:	No data available
Auto-ignition temperature:	No data available
Smoldering temperature:	No data available
Decomposition temperature:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Upper explosion limit / Upper flammability limit:	No data available



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Lower explosion limit / Lower flammability limit:	No data available
Vapour pressure	No data available
Relative vapour density:	No data available
Relative density:	No data available
Density:	No data available
Bulk density:	No data available
Solubility(ies)	
Water solubility:	insoluble
Solubility in other solvents:	No data available
Partition coefficient:	
n-octanol/water:	No data available
Decomposition temperature:	No data available
Viscosity, dynamic:	No data available
Viscosity, kinematic:	No data available
Flow time:	No data available

## 9.2. Other information

No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No decomposition if stored and applied as directed.

### 10.2. Chemical Stability

No decomposition if stored and applied as directed.

### 10.3. Possibility of hazardous reactions

#### Hazardous reactions:

Stable under recommended storage conditions.

No decomposition if stored and applied as directed.

### 10.4. Conditions to avoid

Do not allow evaporation to dryness.

### 10.5. Incompatible Materials

No data available.

### 10.6. Hazardous decomposition products

Thermal decomposition:

Carbon monoxide, carbon dioxide, and unburned hydrocarbons (smoke).

## SECTION 11: TOXICOLOGIC INFORMATION

### 11.1. Information on toxicological effects

#### **Acute Toxicity**

Harmful if swallowed

#### Product:

Acute oral toxicity : Acute toxicity estimate: 1,391 mg/kg  
Method: Calculation method

#### Components:

##### **Copper:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

##### **zinc powder — zinc dust (stabilised):**

Acute oral toxicity : (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 5.41 mg/l

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Exposure time: 4 h  
Test atmosphere: dust/mist

## **1,2-benzisothiazol-3(2H)-one:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): 0.4 mg/l  
Exposure time: 4 h  
Assessment: The component/mixture is highly toxic after short term inhalation.

## **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Acute oral toxicity : Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : Assessment: The component/mixture is highly toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is highly toxic after single contact with skin.

## **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

Remarks: May cause skin irritation and/or dermatitis.

### **Components:**

#### **Copper:**

Remarks: May cause skin irritation in susceptible persons.

## **1,2-benzisothiazol-3(2H)-one:**

Result: Skin irritation

## **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Product:**

Remarks: Eye irritation

### **Components:**

#### **Copper:**

Result: Eye irritation

## **1,2-benzisothiazol-3(2H)-one:**

Result: Corrosive

## **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

Result: Corrosive

## **Respiratory or skin sensitisation**

### **Skin sensitisation**

Not classified based on available information.

### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

## **1,2-benzisothiazol-3(2H)-one:**

Result: May cause sensitisation by skin contact.

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## **Germ cell mutagenicity**

Not classified based on available information.

## **Carcinogenicity**

Not classified based on available information.

## **Reproductive toxicity**

Not classified based on available information.

## **STOT - single exposure**

Not classified based on available information.

## **STOT - repeated exposure**

Not classified based on available information.

## **Aspiration toxicity**

Not classified based on available information.

## **Further information**

### **Product:**

Remarks: No data available

### **Components:**

#### **Copper:**

Remarks: No data available

#### **zinc powder — zinc dust (stabilised):**

Remarks: No data available

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## **SECTION 12: ECOLOGICAL INFORMATION**

### **12.1. Toxicity:**

#### **Components:**

##### **Copper:**

M-Factor (Short-term (acute) aquatic hazard) : 10

##### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

##### **zinc powder — zinc dust (stabilised):**

##### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

##### **1,2-benzisothiazol-3(2H)-one:**

M-Factor (Short-term (acute) aquatic hazard) : 1

##### **Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic : Toxic to aquatic life with long lasting effects hazard

##### **reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1):**

M-Factor (Short-term (acute) aquatic hazard) : 100

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M-Factor (Long-term (chronic) aquatic hazard) : 100

## Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

#### Product:

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6. Other adverse effects

#### Product:

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

#### Components:

##### **Copper:**

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

##### **zinc powder — zinc dust (stabilised):**

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## SECTION 13: DISPOSAL CONSIDERATIONS

European Waste Catalogue: 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances.

### 13.1. Waste treatment methods

#### Product:

The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
In accordance with local and national regulations.

#### Contaminated packaging:

Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
In accordance with local and national regulations.

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## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number:

ADR: UN 3082  
IATA: UN 3082  
IMDG: UN 3082

### 14.2. UN proper shipping name

ADR: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID  
N.O.S.  
(Copper metal powder)  
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID  
N.O.S.  
(Copper metal powder)  
IATA: environmentally hazardous substance, liquid; n.o.s. (Copper metal powder)

### 14.3 Transport hazard class

ADR: 9  
IMDG: 9  
IATA: 9

### 14.4 Packing group

#### ADR

Packaging group: III  
Classification Code: M6  
Hazard identification No: 90  
Labels: 9

#### IMDG

Packaging group: III  
Labels: 9  
EmS Number: F-A, S-F

#### IATA (Cargo)

Packing instruction  
(cargo aircraft): 964  
Packing instruction (LQ): Y964  
Packaging group: III  
Labels: Miscellaneous

#### IATA (Passenger)

Packing instruction  
(passenger aircraft): 964  
Packing instruction (LQ): Y964  
Packaging group: III  
Labels: Miscellaneous

### 14.5 Environmental hazards

#### ADR:

Environmentally hazards: yes

#### IMDG:

Marine pollutant: yes

#### IATA (Passenger):

Environmentally hazards: yes

#### IATA (Cargo):

Environmentally hazards: yes

### 14.6. Special precautions for users

Remarks: For single packagings ≤ 5L / 5 kg, or combination packagings containing inner packagings ≤ 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be

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applied.

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable for product as supplied.

## SECTION 15: REGULATORY INFORMATION

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

REACH - Candidate List of Substances of

Very High Concern for Authorisation (Article 59): Not applicable

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

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) :

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) :

Conditions of restriction for the following entries should be considered: Number on list 3 salt of polyamineamide (72243/00/2008.0023, Germany) (Number on list 3) polypropylene glycol (Number on list 3) reaction mass of 5-chloro-2-methyl2H-isothiazol-3-one and 2-methyl2H-isothiazol-3-one (3:1) (Number on list 3)

### 15.2. Chemical safety assessment

## SECTION 16: OTHER INFORMATION

### Full text of H-Statements

H301 : Toxic if swallowed.  
H302 : Harmful if swallowed.  
H310 : Fatal in contact with skin.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H330 : Fatal if inhaled.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : Toxic to aquatic life with long lasting effects.

### Full text of other abbreviations:

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

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GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

GB EH40 / STEL :

Short-term exposure limit (15-minute reference period)

## Legend

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
ASTM	American Society for the Testing of Materials
bw	Body weight
CLP	Classification Labelling Packaging Regulation Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DIN	Standard of the German Institute for Standardisation
DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC-Number	European Community number
ECx	Concentration associated with x% response
ELx	Loading rate associated with x% response
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
ErCx	Concentration associated with x% growth rate response
GHS	Globally Harmonized System
GLP	Good Laboratory Practice
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50	Half maximal inhibitory concentration
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISHL	Industrial Safety and Health Law (Japan)
ISO	International Organisation for Standardization
KECI	Korea Existing Chemicals Inventory
LC50	Lethal Concentration to 50 % of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
n.o.s.	Not Otherwise Specified
NO(A)EC	No Observed (Adverse) Effect Concentration
NO(A)EL	No Observed (Adverse) Effect Level
NOELR	No Observable Effect Loading Rate
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Co-operation and Development
OPPTS	Office of Chemical Safety and Pollution Prevention
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
(Q)SAR	(Quantitative) Structure Activity Relationship

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