SAFETY DATA SHEET

In accordance with (EU) Nr. 1907/2006

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

Gold

1.1. Product identifier

Tradename:

Tradename: MIXOL®ME 1Gold

UFI: YP7D-620N-E00J-PUY1

MIXOL[®] ME 1

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, Catergory 4	H302 Harmful if swallowed
Eye irritation, Category 2	H319 Causes serious eye irritation
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
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.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H410	Very toxic to aquatic life with long lasting effects.

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	Precautionary st	atements	: Prevention: P261 P264 P273 P280	Avoid breathing mist or vapours . Wash skin thoroughly after handling. Avoide release to the environment. Wear rotective gloves/ eye protection/ face protection.
			Response: P333 + P313 P391	If skin irritation or rash occurs: Get medical advice / attention. Collect spillage.
			Disposal: P501	Dispose of contents / container to an approved waste disposal plant.
	Hazard compone	ents whicl	h must be listed o	on the label:

Hazard components which must be listed on the label:

Copper

1,2-benzisothiazol-3(2H)-one

maleic anhydride

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

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;H302Eye Irrit. 2;H319Aquatic Acute 1;H400Aquatic Chronic 1;H410M-Factor (Acute aquatictoxicity):10M-Factor (Chronicaquatic toxicity):10	≥ 25 - < 50
Zinc powder – zinc dust (stabilized)	7440-66-6 231-175-3 030-001-01-9 01-2119467174-37	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	≥ 2,5 - < 10
salt of polyamineamide,	Not Assigned	Skin Irrit. 2; H315	≥ 1 - < 10
1,2-benzisothiazol- 3(2H)-one	2634-33-5 220-120-9 613-088-00-6	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 specific concentration limit	>= 0.0025 - < 0.025

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		Skin Sens. 1; H317 >= 0.05 % Skin Sens. 1; H317 >= 0.05 %	
maleic anhydride	108-31-6 203-571-6 607-096-00-9	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT RE 1; H372 specific concentration limit Skin Sens. 1A; H317 >= 0.001 % Skin Sens. 1A; H317 >= 0.001 %	>= 0.001 - < 0.1
reaction mass of 5- chloro-2- methyl- 2H-isothiazol-3-one and 2-methyl-2H- isothiazol-3-one (3:1)	55965-84-9 613-167-00-5	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1C; H314 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100 specific concentration limit Skin Corr. 1B; H314 >= 0.6 % Skin Irrit. 2; H315 0.06 - < 0.6 % Eye Irrit. 2; H319 0.06 - < 0.6 % Skin Sens. 1; H317 >= 0.0015 % Eye Dam. 1; H318 >= 0.6 % Skin Sens. 1A; H317 >= 0.0015 % Eye Dam. 1A; H317 >= 0.0015 % Skin Sens. 1A; H317 >= 0.0015 % Eye Dam. 1A; H317 = 0.0015 % Eye Dam. 1A; H317 = 0.0015 % Eye Dam. 1A; H317 = 0.0015 % Eye Dam. 1A; H318 = 0.6 %	>= 0.0002 - < 0.0015

For explanation of abbreviations see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Discription of first aid measures General advice:

Move the victim to fresh air.

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Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended If inhaled: If unconscious, place in recovery position and seek medical advice. If symptoms persisit, call a physician. In case of skin contact: Wash of immediately with soap and a plenty of water. If skin irritation persists, call a physician. 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: Induce vomitig immediately and call a physician Keep resperatory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Most important symptoms and effects, both acute and delayed

<u>Risks:</u> Harmful if swallowed. May cause an allergic skin reaction 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:

4.2.

Suitable extinguishing media: Special powder against metal fire Dry sand ABC-Powder <u>Unsuitable extinguishing media:</u> Water

High volume water jet Carbon dioxide (CO₂)

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

<u>Special protective equipment for firefighters:</u> Wear self contained breathing apparatus for fire fighting if necessary.

Further information:

Standard procedure for chemical fires.

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

<u>Personal precautious</u>: Evacuate personal to save areas. Ensure adequate ventilation. Use personal protective equipment.

6.2. Environment precautions

Environmental precautious:

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

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. Reference to other sections

For personal protection see Section 8.

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.

<u>Hygiene measures:</u> 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

<u>Requirements for storage areas and containers:</u> 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:

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Protect from humidity and water.

Storage stability:

Storage stability of at least 24 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)

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/m³ (Copper)	GB EH40
		TWA (Dusts and mists)	1 mg/m³ (Copper)	GB EH40
		STEL (Dusts and mists)	2 mg/m³ (Copper)	GB EH40
zinc powder - zinc dust (stabilized)	7440-66-6	TWA (Inhalable)	10 mg/m ³	GB EH40
		TWA (Respirable fraction)	4 mg/m ³	GB EH40
silicon dioxide	7631-86-9	TWA (inhalable dust)	6 mg/m³ (Silica)	GB EH40
Further information	those fractic undertaken General me thoracic and hazardous t concentratic inhalable du that any dus these levels exposure to dusts contai deposition a respiratory s nature and s limit-setting approximate mouth durin respiratory t penetrates t explanatory	poses of these limits, respons of airborne dust which in accordance with the response of airborne dust which in accordance with the response of a standard standard linhalable dust, The CC on health includes dust of on in air equal to or great st or 4 mg/m ³ 8-hour TV at will be subject to COS . Some dusts have been these must comply with n particles of a wide ran and fate of any particular system and the body response termed 'inhala- tes to the fraction of airbor g breathing and is there ract. Respirable dust ap o the gas exchange reg material are given in MI a that have their own as	ch will be collected will methods described in gravimetric analysis OSHH definition of a f any kind when pre- ter than 10 mg/m ³ 8 VA of respirable dus HH if people are exp assigned specific will the appropriate limit ge of sizes. The bell particle after entry is ponse that it elicits, distinguishes two sis able' and 'respirable' orne material that en fore available for de proximates to the fra- ion of the lung. Fulle DHS14/4., Where du	when sampling is n MDHS14/4 of respirable, substance sent at a -hour TWA of it. This means posed above WELs and it. Most industrial naviour, into the human depend on the ze fractions for ., Inhalable dust ters the nose and position in the action that er definitions and usts contain

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	should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.				
		TWA (Respirable dust)	2,4 mg/m³ (Silica)	GB EH40	
Further information	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/m³ 8-hour TWA of inhalable dust or 4 mg/m³ 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 				
maleic anhydride	108-31-6	TWA	1 mg/m ³	GB EH40	
Further information	asthmagens airway hype mechanism. exposure to respiratory s runny nose will become those who a cause occup which may t airway hype themselves. respiratory s publication <i>A</i> implicated in practicable, should be pu apply adequ hyper-respo COSHH req practicable. should recei considered. or liable to b asthma and occupationa	that can cause occupati that can cause occupati and respiratory sensitis r-responsiveness via an Once the airways have the substance, sometim symptoms. These sympto to asthma. Not all worked hyper-responsive and it re likely to become hyper bational asthma should b rigger the symptoms of a r-responsiveness, but will The latter substances a sensitisers. Further inforr Asthmagen? Critical asses noccupational asthma., N exposure to substances revented. Where this is r hate standards of control nsive. For substances the uires that exposure be re Activities giving rise to s ve particular attention will Health surveillance is ap there should be appropri I health professional over ., Capable of causing oc	ers) can induce a s immunological irrita become hyper-resp es even in tiny qua oms can range in se rs who are exposed is impossible to ide r-responsive. Subs be distinguished from asthma in people w hich do not include re not classified as nation can be found essments of the evi Wherever it is reased that can cause occup educed to as low as hort-term peak con hen risk manageme popropriate for all em ce which may cause iate consultation w er the degree of risk	tate of specific ant or other bonsive, further nitities, may cause everity from a d to a sensitiser entify in advance tances that can m substances ith pre-existing the disease asthmagens or d in the HSE dence for agents bonably cupational asthma mary aim is to from becoming bational asthma, is reasonably centrations ent is being aployees exposed e occupational ith an a and level of	

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		notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the categories shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages (www.hse.gov.uk/asthma) provide further information.				
			STEL	3 mg/m ³	GB EH40	
	Further information	asthmagene airway hype mechanism exposure to respiratory runny nose will become those who a cause occu which may airway hype themselves respiratory publication implicated i practicable, should be p apply adequ hyper-respo COSHH rec practicable. should rece considered. or liable to b asthma and occupationa surveillance notation in t which may 1. It should may cause	that can cause occup s and respiratory sensi- er-responsiveness via b the substance, some symptoms. These sym- to asthma. Not all wor e hyper-responsive and are likely to become hy pational asthma should trigger the symptoms of er-responsiveness, but . The latter substances sensitisers. Further inf Asthmagen? Critical a n occupational asthma exposure to substances quires that exposure be further standards of contro- prevented. Where this i uate standards of contro- prevented to a substances quires that exposure be activities giving rise to show a substances quires that exposure be activities giving rise to be exposed to a substances there should be appro- al health professional of a there should be appro- al health professional of a the should be appro- al health professional as the should be appro- al health professional the shou	itisers) can induce a an immunological irrive become hyper-res- times even in tiny qua- ptoms can range in s- kers who are exposed it is impossible to id oper-responsive. Sub- d be distinguished fro- of asthma in people w which do not include s are not classified as ormation can be four ssessments of the ev- a., Wherever it is reas- es that can cause occ- s not possible, the pr rol to prevent workers that can cause occ- s that can cause occ- e reduced to as low a o short-term peak con- a short-term peak con- a short consultation v over the degree of ris- occupational asthma een assigned only to thma in the categorie other substances not HSE's asthma web p	state of specific tant or other sponsive, further antities, may cause severity from a ad to a sensitiser entify in advance stances that can om substances with pre-existing e the disease s asthmagens or ad in the HSE vidence for agents sonably cupational asthma imary aim is to s from becoming upational asthma, as is reasonably ncentrations ent is being mployees exposed se occupational with an k and level of a., The 'Sen' those substances es shown in Table in these tables	

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

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
	Workers	Inhalation	Long-term – systemic effects	20 mg/m ³
	Consumers	Inhalation	Long-term – local effects	1 mg/m ³
	Consumers	Inhalation	Acute local effects	1 mg/m ³
	Consumers	Skin contact	Long-term – systemic effects	137 mg/kg

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	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 ³
	Workers	Skin contact	Long term – systemic effects	83 mg/kg
	Consumers	Inhalation	Long term – systemic effects	2.5 mg/m ³
	Consumers	Skin contact	Long term – systemic effects	83 mg/kg
	Consumers	Ingestion	Long term – systemic effects	0.83 mg/kg
silicon dioxide	Workers	Inhalation	Long term – systemic effects	4 mg/m ³
1,2- benzisothiazol- 3(2H)-one	Workers	Inhalation	Long term – systemic effects	6.81 mg/m ³
	Workers	Skin contact	Long term – systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long term – systemic effects	1.2 mg/m ³
	Consumers	Skin contact	Long term – systemic effects	0.345 mg/kg
maleic anhydride	Workers	Inhalation	Acute systemic effects	0.8 mg/m ³
	Workers	Inhalation	Acute local effects	0.8 mg/m ³
	Workers	Inhalation	long term – systemic and local effects	0.4 mg/m ³
	Workers	Skin contact	long term – systemic and local effects	0.04 mg/kg
	Workers	Skin contact	Acute systemic effects	0.04 mg/kg
	Workers	Skin contact	Acute local effects	0.04 mg/kg
reaction mass of 5-chloro-2- methyl-2H- isothiazol-3- one and 2- methyl-2H- isothiazol-3- one (3:1)	Workers	Inhalation	Long-term local effects	0.02 mg/m ³
	Workers	Inhalation	Acute local effects	0.04 mg/m ³
	Consumers	Inhalation	Long-term local effects	0.02 mg/m ³

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Inhalation Acute local effects 0.04 Consumers mg/m3 Consumers Ingestion Long-term local effects 0.090 mg/kg Consumers Acute local effects 0.11 mg/kg Ingestion Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006: Environmental Substance name Value Compartment copper Fresh water 0.0078 mg/l 0.0052 mg/l Marine water STP 0.230 mg/l Fresh water sediment 87 mg/kg Marine sediment 676 mg/kg Soil 65 mg/kg zinc powder - zinc dust Fresh water 0.0206 mg/l (stabilized) Marine water 0.0061 mg/l STP 0.100 mg/l Fresh water sediment 235.6 mg/kg Marine sediment 121 mg/kg Soil 35.6 mg/kg 1,2-benzisothiazol-3(2H)-Fresh water 0.00403 mg/l one Marine water 0.000403 mg/l STP 0.00103 mg/l Intermittent water 0.0011 mg/l release Intermittent Release 0.00011 mg/l Fresh water sediment 0.0499 mg/kg Marine sediment 0.00499 mg/kg Soil 3 mg/kg maleic anhydride Fresh water 0.04281 mg/l Fresh water sediment 0.344 mg/kg Marine water 0.004281 mg/l Marine sediment 0.0334 mg/kg Soil 0.0415 mg/l periodical Release 0.4281 mg/l STP 44.6 mg/l 0.00339 mg/l reaction mass of 5-Fresh water chloro-2-methyl-2Hisothiazol-3-one and 2methyl-2H-isothiazol-3one (3:1)

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Intermittent water release	0.00339 mg/l
Marine water	0.00339 mg/l
Intermittent Release	0.00339 mg/l
STP	0.23 mg/l
Soil	0.0471 mg/kg
Fresh water sediment	0.027 mg/kg
Marine sediment	0.027 mg/kg
Soil	0.01 mg/kg

8.2. Exposure contols

Personal protective equipment

<u>Eye/face protection:</u> Safety glasses Tightly fitting safety goggles 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 protect	tion:
Impervious clothing	

Impervious clothing 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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

Physical state:	liquid
Colour:	gold
Odour:	characteristic
Odour Threshold:	No data available
Freezing point:	No data available
Boiling point/boiling range:	> 100 °C
Flammability :	No data available
Upper explosion limit /	
Upper flammability limit:	No data available

Lower explosion limit /	
Lower flammability limit:	No data available
Flash point	> 100 °C
Auto-ignition temperature:	Not relevant
Decomposition temperature :	No data available
pH:	substance/mixture is non-soluble (in water)
Viscosity, kinematic :	No data available
Solubility(ies)	
Water solubility:	partly insoluble
Solubility in other solvents:	No data available
Partition coefficient:	
n-octanol/water:	No data available
Vapour pressure :	No data available
Relative density :	No data available
Density :	No data available
Relative vapour density:	No data available
Particle Size Distribution:	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 <u>Hazardous reactions:</u> Stable under recommended storage conditions. No decomposition if stored and applied as directed.

10.4. Conditions to avoid Do not allow evapouration to dryness.

- **10.5.** Incompatible Materials No data available.
- Hazardous decomposition products
 <u>Thermal decomposition</u>:
 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: 1,227 mg/kg
	Method: Calculation method

Components:

Copper:

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

Single

zinc powder — zinc dust (stabilised): Acute oral toxicity : (Rat): > 2,000 mg/kg page 12/19

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Acute inhalation toxicity	LC50 (Rat): 5.41 mg/l Exposure time: 4 h Test atmosphere: dust/mist	
1,2-benzisothiazol-3(2H		
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 Test atmosphere: dust/mist Assessment: The component/mixture is highly toxic after short term inhalation.	
maleic anhydride:		
Acute oral toxicity :	Assessment: The component/mixture is moderately toxic after single ingestion.	
reaction mass of 5-chlo (3:1):	pro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one	
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/irritatio Not classified based on a		
<u>Product:</u> Remarks: May cause ski	n irritation and/or dermatitis.	
Components:		
Copper: Remarks: May cause ski	n irritation in susceptible persons.	
1,2-benzisothiazol-3(2F Result: Skin irritation)-one:	
maleic anhydride: Result: Sever skin irritation		
Serious eye damage/eye irritation Causes serious eye irritation.		
<u>Product:</u> Remarks: May cause irreversible eye damage		
Components:		
Copper: Result: Eye irritation		
1,2-benzisothiazol-3(2H)-one: Result: Corrosive		
maleic anhydride: Result: Irreversible effects on the eye		
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1): Result: Corrosive		

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Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:

1,2-benzisothiazol-3(2H)-one: Result: May cause sensitisation by skin contact.

maleic anhydride:

Assessment: May cause sensitisation by skin contact Assessment: Probability or evidence of high respiratory sensitisation rate in humans

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.

Components:

maleic anhydride: Assessment: Causes damage to organs through prolonged or repeated exposure

Aspiration toxicity

Not classified based on available information.

11.2. Information on other hazards Further information

Product: Remarks: No data available

Components:

Copper: Remarks: No data available

zinc powder — zinc dust (stabilised): Remarks: No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Components:

Copper:

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

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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

Aacute aquatic hazard : Very toxic to aquatic life.

Chronic aquatic hazard : Very toxic to aquatic life with long lasting effects.

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

Ecotoxicology Assessment

Aacute aquatic hazard : Very toxic to aquatic life. 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 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 substa

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. Endocrine disrupting properties No data available

12.7. 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.

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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.

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.

Contaminated packaging:

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number:

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

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID
N.O.S.
(Copper metal powder)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID
N.O.S.
(Copper metal powder)
Environmentally hazardous substance, liquid; n.o.s.
(Copper metal powder)

14.3 Transport hazard class

•	Class	Subsidiary risk
ADR:	9	
IMDG:	9	
IATA:	9	

14.4 Packing group

aoning group	
ADR	
Packaging group:	III
Classification Code:	M6
Hazard identification No:	90
Labels:	9
Tunnel restriction code:	(-)
IMDG	
Packaging group:	III
Labels:	9
EmS Number:	F-A, S-F
IATA (Cargo)	
Packing instruction	
(cargo aircraft):	964

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	Packing instruction (LQ): Packaging group: Labels:	Y964 III 9
	<u>IATA (Passenger)</u> Packing instruction (passenger aircraft): Packing instruction (LQ): Packaging group: Labels:	964 Y964 III 9
14.5	Environmental hazards <u>ADR:</u> Environmentally hazards:	yes
	<u>IMDG:</u> Marine pollutant:	yes
14.6.	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 applied.
The transport classification(s) provided herein are for informational purposes only, and solely

based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7. Maritime transport in bulk according to IMO instruments Not applicable for product as supplied.

SECTION 15: REGULATORY INFORMATION

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

Relevant EU provisions transposed through retained EU law

	REACH - Restrictions on the manufacture, placing on : the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	Conditions of restriction for the following entries should be considered: Number on list 3 salt of polyamineamide (Number on list 3) Polypropylene glycol (Number on list 3)
	UK REACH Candidate list of substances of very high : concern (SVHC) for Authorisation	Not applicable
	The Persistent Organic Pollutants Regulations (retained : Regulation (EU) 2019/1021 as amended for Great Britain)	Not applicable
	Regulation (EC) No 1005/2009 on substances that : deplete the ozone layer	Not applicable
	UK REACH List of substances subject to authorisation : (Annex XIV)	Not applicable
15.2.	Chemical safety assessment No data available	

SECTION 16: OTHER INFORMATION

radename:	MIXOL [®] ME	1 Gold	page 18/19
H301 :	Toxic if sw	allowed.	
H302 :	Harmful if	swallowed.	
H310 :	Fatal in co	ntact with skin.	
H314 :	Causes se	evere skin burns and eye damage.	
H315 :		in irritation.	
H317 :		an allergic skin reaction.	
H318 :		prious eye damage.	
H319 :		prious eye irritation.	
H330 :	Fatal if inh		
H334 :		e allergy or asthma symptoms or b	reathing difficulties if inhaled
H372 :			
		mage to organs through prolonge	ed of repeated exposure
H400 :		to aquatic life.	
H410 :		to aquatic life with long lasting effe	
H411 :		quatic life with long lasting effects.	
	ther abbreviations:	- 14	
Acute T			
		(acute) aquatic hazard	
		(chronic) aquatic hazard	
Eye Da			
Eye Irri			
Skin Co		sion	
Skin Irr	t. : Skin irritat	on	
Skin Se	ens. : Skin sensi	lisation	
STOT F	RE : Specific ta	rget organ toxicity - repeated expo	osure
GB EH4		WEL - Workplace Exposure Limit	
GB EH		n exposure limit (8-hour TWA refe	
		n exposure limit (15-minute refere	
Legend			
ADN		Agreement concerning the Interna	ational Carriage of
	Dangerous	s Goods by Inland Waterways	
ADR	European	Agreement concerning the Interna	ational Carriage of
		s Goods by Road	-
AICS		Inventory of Chemical Substances	s
ASTM		Society for the Testing of Material	
bw	Body weig		-
CLP		ion Labelling Packaging Regulation	n
		(EC) No 1272/2008	
CMR	5		ant
DIN		n, Mutagen or Reproductive Toxic of the German Institute for Standa	
		-	
DMEL		inimal Effect Level (genotoxic sub	stances
DNEL		o Effect Level	
DSL		Substances List (Canada)	
ECHA		Chemicals Agency	
EC-Nur		Community number	
ECx		tion associated with x% response	
ELx		te associated with x% response	
EmS	Emergenc	y Schedule	
ENCS	Existing ar	nd New Chemical Substances (Jaj	pan)
ErCx	Concentra	tion associated with x% growth ra	te response
GHS		armonized System	•
GLP	-	pratory Practice	
IARC		al Agency for Research on Cance	er
IATA		al Air Transport Association	
IBC			Equipment of Shins
IDC		al Code for the Construction and	
1050	carrying D	angerous Chemicals in Bulk	
IC50		nal inhibitory concentration	
ICAO		al Civil Aviation Organization	
	Inventory (of Existing Chemical Substances i	n (`hina
IECSC IMDG		al Maritime Dangerous Goods	

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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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