

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

### 1.1. Product identifier

Tradename: MIXOL® ME 1 Gold

### 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 (24-Hour-Number)  
GBK/Infotrac ID 107633: (US domestic): 1-800-5355-053 or  
From outside US: (001) 352-323-3500

## SECTION 2: HAZARDS IDENTIFICATION

### GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4  
Eye irritation : Category 2A

GHS label elements :  
Hazard pictograms



Signal word: Warning

Hazard statements: H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

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Precautionary statements: **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear eye protection/ face protection.

**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.

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

Hazard components which must be listed on the label:  
Copper

## Other hazards

None known.

## SECTION 3: COMPOSITION / INFORMATION TO INGREDIENTS

### Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
copper	7440-50-8	$\geq 30 - < 50$
Zinc	7440-66-6	$\geq 5 - < 10$
salt of polyamineamide (72243/00/2008.0023, Germany)	Not Assigned	$\geq 1 - < 5$
Silica	7631-86-9	$\geq 1 - < 5$

Actual concentration is withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

#### General advice:

Take the victim into fresh air.  
Move out of dangerous area.  
Show this material 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 of 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.

Most important symptoms and effects, both acute and delayed

Harmful if swallowed.  
Causes serious eye irritation.

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## SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media:

Special powder against metal fire  
Dry sand  
ABC-Powder

Unsuitable extinguishing media

Water  
High volume water jet

Specific hazards during fire fighting:

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

Further information:

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

Standart 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.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Evacuate personal to save areas.  
Ensure adequate ventilation.  
Use personal protective equipment.

### Environment 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.

### Methods and material for containment and cleaning up

Use mechanical handling equipment.

Pick up and transfer to properly labeled 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.

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## SECTION 7: HANDLING AND STORAGE

### Advice on protection against fire and explosion:

Keep away from heat and sources of ignition.  
No smoking.

Normal measures for preventive fire protection

### Advice on safe handling:

Do not breathe vapors/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

### Conditions for safe storage:

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.

### Technical measures/Precautions:

Protect from humidity and water.

### Materials to avoid:

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order

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to avoid exothermic reactions.  
Do not store together with oxidizing and self-igniting products. .

Further information on storage stability:

No decomposition if stored and applied as directed.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS.No.:	Value type (Form of exposure)	Control- parameters / Permissible concentration	Basis
Copper	7440-50-8	TWA	1 mg/m <sup>3</sup> (Copper)	ACGIH
		TWA (Dust and mists)	1 mg/m <sup>3</sup> (Copper)	NIOSH REL
		TWA	1 mg/ m <sup>3</sup> (Copper)	OSHA P0
		TWA	0.2 mg/ m <sup>3</sup> (Copper)	ACGIH
		TWA	0.1 mg/ m <sup>3</sup> (Copper)	OSHA P0
		TWA (Dust and mists)	1 mg/ m <sup>3</sup> (Copper)	ACGIH
		TWA (Fumes)	0.2 mg/ m <sup>3</sup> (Copper)	ACGIH
		TWA (Dust)	1 mg/ m <sup>3</sup> (Copper)	NIOSH REL
		TWA (Mist)	1 mg/ m <sup>3</sup> (Copper)	NIOSH REL
		TWA (Dust and mists)	1 mg/ m <sup>3</sup> (Copper)	OSHA Z-1
		TWA (Fumes)	0.1 mg/ m <sup>3</sup> (Copper)	OSHA Z-1
		TWA (Fumes)	0.1 mg/ m <sup>3</sup> (Copper)	OSHA P0
		TWA (Dust and mists)	1 mg/ m <sup>3</sup> (Copper)	OSHA P0
Zinc	7440-66-6	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3

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		TWA (respirable fraction)	5 mg/ m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
Silica	7631-86-9	TWA (Dust))	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/ m <sup>3</sup> / %SiO <sub>2</sub> (Silica)	OSHA Z-3
		TWA	6 mg/m <sup>3</sup> (Silica)	NIOSH REL

## Personal protective equipment

Respiratory protection: Use suitable breathing protection if workplace concentration requires.  
Equipment should conform to EN 14387

### 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.

Eye protection:

Safety glasses

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

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

Hygiene measures:

General industrial hygiene practice.

When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

liquid

Colour:	gold
Odour:	characteristic
Odour Threshold:	No data available
pH:	6 – 8 Concentration: 100%
Melting point:	No data available
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
Lower explosion limit / Lower flammability limit:	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

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

No decomposition if stored and applied as directed.

### Chemical Stability

No decomposition if stored and applied as directed.

### Possibility of hazardous reactions

Stable under recommended storage conditions  
No decomposition if stored and applied as directed..

### Conditions to avoid

Do not allow evaporation to dryness.  
No data available.

### Hazardous decomposition products

#### Thermal decomposition:

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

## SECTION 11: TOXICOLOGIC INFORMATION

### Acute toxicity

Harmful if swallowed.

### Components:

#### Copper:

Acute oral toxicity

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

#### Zinc:

Acute oral toxicity:

(Rat):> 2,000 mg/l

Acute inhalation toxicity:

LC50 (Rat): 5.41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

#### Silica:

Acute oral toxicity:

LD50 (Rat):> 5,000 mg/l

(Mouse): 15,000 mg/l

Acute inhalation toxicity:

(Rat): 0.139 mg/l

Exposure time: 4 h

Acute dermal toxicity

LD50 (Rabbitt): > 5,000 mg/kg

### Skin corrosion/irritation:

Not classified based on available information.

### Components:

#### Copper:

Remarks: May cause skin irritation in susceptible persons..

**Serious eye damage/eye irritation:** Causes serious eye irritation.

### Components:

#### Copper:

Result: Eye irritation

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information



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**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**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

### Components:

**Copper:** Remarks: No data available

**Zinc:** Remarks: No data available

**Silica:** Remarks: No data available

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## SECTION 12: ECOLOGICAL INFORMATION

### Exotoxicity

#### Components:

#### **Copper:**

M-Factor (Acute aquatic toxicity) : 10

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Zinc:****Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

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

**Silica:**

Toxicity to daphnia and other aquatic invertebrates : (Daphnia): 7,600 mg/l

Toxicity to algae : (Chlorella pyrenoidosa): 440 mg/l

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Other adverse effects**

No data available

**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:**

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.

**Silica:**

Additional ecological information :

No data available

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**SECTION 13: DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues:

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.

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

## SECTION 14: TRANSPORT INFORMATION

Domestic regulation

### 49 CFR

Not regulated as a dangerous good

### International Regulation

#### IATA-DGR

UN/ID No.: UN 3082  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.  
(Copper metal powder)  
Class: 9  
Packing group: III  
Labels: Miscellaneous  
Packing instruction (cargo aircraft): 964  
Packing instruction (passenger aircraft): 964

#### IMDG-Code

UN number: UN 3082  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(Copper metal powder)  
Class: 9  
Packing group: III  
Labels: 9  
EmS Code: F-A, S-F  
Marine pollutant: yes  
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.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## SECTION 15: REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Components	CAS.No.:	Component RQ (lbs)
Copper	7440-50-8	5000

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## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

## SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

Copper	7440-50-8	>= 30 - < 50 %
Zinc	7440-66-6	>= 5 - < 10 %

## Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489).

## Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Copper	7440-50-8	35.95 %
Zinc	7440-66-6	6.39 %

This product contains the following priority pollutants related to the U.S. Clean Water Act:

Copper	7440-50-8	35.95 %
Zinc	7440-66-6	6.39 %

## US State Regulations

### Massachusetts Right To Know

Copper	7440-50-8
Zinc	7440-66-6
Silica	7631-86-9

### Pennsylvania Right To Know

Water	7732-18-5
Copper	7440-50-8
Zinc	7440-66-6
salt of polyamineamide (72243/00/2008.0023, Germany)	Not Assigned
Silica	7631-86-9
Aluminum	7429-90-5

**California Prop. 65**

WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**California List of Hazardous Substances**

Copper	7440-50-8
Zinc	7440-66-6
Silica	7631-86-9

**California Permissible Exposure Limits for Chemical Contaminants**

Copper	7440-50-8
Zinc	7440-66-6
Silica	7631-86-9

**SECTION 16: OTHER INFORMATION****Full text of other abbreviations**

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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

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Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. MIXOL-PRODUKTE Diebold GmbH makes no warranties, express or implied, as to the information accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of MIXOL products for its particular application. Nothing included in this information waives any of MIXOL's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing.

Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing MIXOL products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products.

For additional information, please contact MIXOL-PRODUKTE Diebold GmbH.