SAFETY DATA SHEET

In accordance with (EU) Nr. 453/2010 Revision Date: 20.11.2014 replace vers.from 29.08.2012

Tradename: MIXOL® ME 1 Gold

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
From outside US:(001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free): 1-800-5355-053

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE / MIXTURE

Classification (Regulation (EC) No. 1272/2008):

Acute toxicity, Catergory 4	H 302: Harmful if swallowed
Acute aquatic toxicity, Category 1	H 400: Very toxic to aquatic life
Chronic aquatic toxicity, Category 2	H 411: 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.
H400 Very toxic to aqutic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements: **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat drink or smoke, when using this product.
P273 Avoide release to the environment.

Response:

P301 + P312	If swallowed: Call a poison center or doctor/physician if you feel unwell.
P391	Collect spillage.

Disposal:

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

Hazard components which must be listed on the label:
7440-50-8 Copper

Additional Labeling:
EUH208 Contains: 1,2-Benzisothiazol-3(2H)-on,
May produce an allergic reaction..

2.3. OTHER HAZARDS
No information available

SECTION 3: COMPOSITION / INFORMATION TO INGREDIENTS

3.1. MIXTURES

Chemical Name	CAS-No. EC-No. Registration No.	Classification (67/548)/EWG	Classification (Regulation (EC) No. 1272/2008)	Concentration %
copper	7440-50-8 231-159-6	Xn-N; R22-R50/53	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 25 - < 50
zinc	7440-66-6 231-175-3 01-2119467174-37	N; R50-R53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 10
Destillates (Petroleum), solvent-refined heavy paraffinic	64741-88-4 265-090-8			>= 0,1 - < 10

Additional information:
The full text of the R-phrases mentioned in this section, see Section 16.
The full text of the H-Statements mentioned in this section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. DISCRIPTION OF FIRST AID MEASURES

General advice:
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 persisit, call a physician.

In case of skin contact:
Wash of immediately with soap and a plenty of water.

In case of eye contact:
Flush eyes with water as a precaution.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed:
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.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED SYMPTOMS

Symptoms:
No informations available..

Hazards:
No informations available.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treatment:
No informations available.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA:

Suitable extinguishing media:
Dry sand
special powder against metal fire
ABC-Powder

Extinction 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 the fire fighting to enter drains or water courses.

5.3. ADVICE FOR FIREFIGHTERS

Special protective equipment for firefighting:
Wear self contained breathing apparatus for the fire fighting if necessary.

Further information:
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. Standart procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES
Evacuate personal to save areas.
Ensure adequate ventilation.

6.2. 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.

6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Use mechanical handling equipment.

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).

6.4. CROSS REFERENCE TO OTHER SECTIONS

Additional information:

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. 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:

Normal measures for preventive fire protection.
Keep away from heat an sources of ignition. No smoking.

Hygiene measures:

When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and the end of workday.
General industrial hygiene practice.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements for storage areas and containers:

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 standarts.
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.
No special measures required.

Advice on storage compatibility:

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Do not store together wird oxidizing and self-ignition products.

Storage stability:

Storage stability of at least 18 month.

Further information on storage conditions:

Protect from humidity and water.

Other data:

No decomposition if stored and applied as dircted.
Keep in a dry, cool and well-ventilated place.

7.3. SPECIFIC END USE(S)

This information is not available.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL FACILITIES

No further data; see item 7.

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
copper	7440-50-8	TWA(Inhalable)	10 mg/m^3	2011-12-01	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-3 8-hour TWA of inhalable dust or 4 mg.m-3 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			
copper	7440-50-8	TWA (Respirable)	4 mg/m^3	2011-12-01	GB EH40
Further information		The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
copper	7440-50-8	TWA	1 mg/m^3	2005-04-06	GB EH40
copper	7440-50-8	STEL	2 mg/m^3	2005-04-06	GB EH40
copper	7440-50-8	TWA	0.2 mg/m^3	2005-04-06	GB EH40
Further information		The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used			
Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
zinc	7440-66-6	TWA (Inhalable)	10 mg/m^3	2011-12-01	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-3 8-hour TWA of inhalable dust or 4 mg.m-3 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			

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
zinc	7440-66-6	TWA (Respirable)	4 mg/m^3	2011-12-01	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-3 8-hour TWA of inhalable dust or 4 mg.m-3 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			
silicon dioxide	7631-86-9	TWA (Inhalable)	6 mg/m3	2007-08-01	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 MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dustThe 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-3 8-hour TWA of inhalable dust or 4 mg.m-3 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 MDHS14/3.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			
silicon dioxide	631-86-9	TWA (Respirable)	2.4 mg/m^3	2007-08-01	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 MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dustThe 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-3 8-hour TWA of inhalable dust or 4 mg.m-3 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 MDHS14/3.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

DNEL:

copper (7440-50-8)	End Use:	Workers
	Exposure routes:	Skin contact
	Potential health effects:	short term – systemic effects
	Value:	273 mg/kg

DNEL:

copper (7440-50-8)	End Use:	Workers
	Exposure routes:	Inhalation
	Potential health effects:	short term – systemic effects
	Value:	20 mg/m3

DNEL:

copper (7440-50-8)	End Use:	Workers
	Exposure routes:	Skin contact
	Potential health effects:	long term – systemic effects
	Value:	137 mg/kg

DNEL:

copper (7440-50-8)	End Use:	Consumers
	Exposure routes:	Skin contact
	Potential health effects:	short term – systemic effects
	Value:	273 mg/kg

DNEL:

copper (7440-50-8)	End Use:	Consumers
	Exposure routes:	Inhalation
	Potential health effects:	short term – systemic effects
	Value:	20 mg/m3

DNEL:

zinc (7440-66-6)	End Use:	Workers
	Exposure routes:	Inhalation
	Potential health effects:	long term – systemic effects
	Value:	5 mg/m3

DNEL:

zinc (7440-66-6)	End Use:	Workers
	Exposure routes:	Skin contact
	Potential health effects:	long term – systemic effects
	Value:	83 mg/kg

DNEL:

zinc (7440-66-6)	End Use:	Consumers
	Exposure routes:	Ingestion
	Potential health effects:	long term – systemic effects
	Value:	0.83 mg/kg

DNEL:		
zinc (7440-66-6)	End Use:	Consumers
	Exposure routes:	Skin contact
	Potential health effects:	long term – systemic effects
	Value:	83 mg/kg
DNEL:		
zinc (7440-66-6)	End Use:	Consumers
	Exposure routes:	Inhalation
	Potential health effects:	long term – systemic effects
	Value:	2.5 mg/m3

PNEC:	:
zinc (7440-66-6)	Fresh water
	Value: 0.0206 mg/l
PNEC:	:
zinc (7440-66-6)	Fresh water sediment
	Value: 117.8 mg/kg
PNEC:	:
zinc (7440-66-6)	Marine water
	Value: 0.0061 mg/l
PNEC:	:
zinc (7440-66-6)	STP
	Value: 0.052 mg/l
PNEC:	:
zinc (7440-66-6)	Soil
	Value: 35.6 mg/kg
PNEC:	:
zinc (7440-66-6)	Marine sediment
	Value: 56.5 mg/kg

8.2. PERSONAL PROTECTIVE EQUIPMENT

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Use suitable breathing protection if workplace concentration requires.
Respirator with a vapour filter (EN 141).

Hand protection:

Solvent resistant gloves (butyl-rubber)
Preventive skin protection by use of skin-protection agents is recommended.
Prior to contact with the watersoluble substance/product/preparation apply waterinsoluble skin-protecting agent (fat-containing film former or W/O emulsions)

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of gloves:

The exact break-through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses.
Eye wash bottle with pure water.

Skin and body protection:

Choose body protection to the amount and concentration of the dangerous substance at the workplace.

8.3. ENVIRONMENT EXPOSURE CONTROLS:
Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contamines rivers and lakes or drains,inform respective authorities.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. APPEARANCE

Physical state:	liquid
Colour:	Gold
Odour:	characteristic
pH:	no data available
Freezing point:	no data available
Boiling point/boiling range:	100 °C
Flash point:	>100°C
Bulk density:	no data available
Flammibility(solid,gas)	no data available
Upper explosion limit:	no data available
Lower explosion limit	no data available
Vapour pressure at 20 °C:	no data available
Density at 20 °C:	no data available
Solubility in water:	no data available
Solubility in other solvents:	no data available
Partition coefficient n-octanol/water:	no data available
Auto ignition temperature:	no data available
Thermal decomposition:	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
No decomposition if stored and applied as directed.
Stable under recommended storage conditions.

10.4. CONDITIONS TO AVOID
No data available.
Do not allow evapouration to dryness.

10.5. INCOMPATIBLE MATERIALS
No data available.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS
Carbon monoxide, carbon dioxide, and unburned hydrocarbons (smoke).

SECTION 11: TOXICOLOGIC INFORMATION

11.1. ACUTE TOXICITY

Components Zinc 7440-66-6

Acute oral toxicity:	rat > 2000 mg/kg
Acute inhalation toxicity:	LC 50 rat:5,41 mg/l (Exposure time 4 h)
Skin irritation:	no data available
Serious eye damage/ eye irritation:	no data available
Respiratory or skin sensitization:	no data available
Carcinogenicity:	no data available
Toxicity to reproduction/fertility	no data available
Reprod.Tox.,Development,Teratog.	no data available
STOT – single exposure	no data available
STOT – repeated exposure	no data available
Aspiration toxicity	no data available

ADDITIONAL TOXICOLOGIC INFORMATION

Product:

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY:

Components:	Copper (7440-50-8)
M-Factor:	10

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

No data available

12.6. OTHER CORRUPTIVE EFFECTS

Additional ecotoxicological remarks:

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.Very toxoc to aquatic life.

Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

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 products.
Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

14.1. UN NUMBER:

ADR:	not restricted
IATA:	not restricted
IMDG:	not restricted

14.2. 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
Tunnel restriction code:	(E)

IMDG

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

IATA

Packing instruction (cargo aircraft):	964
Packing instruction (passenger aircraft):	964
Packing instruction (LQ):	Y964
Packaging group:	III
Labels:	9

14.5 ENVIRONMENTAL HAZARDS

ADR:	Environmentally hazards
IMDG:	Marine pollutant

14.6. SPECIAL PRECAUTIONS FOR USERS

See sections 6 to 8 of this Safety Data Sheet.

14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

No data available.

SECTION 15: LEGISLATIVE PROVISIONS

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Watercontaminating class: WGK 1 slightly water endangering (Germany)

15.2. CHEMICAL SAFETY ASSESSMENT

No data available

SECTION 16: OTHER INFORMATION

Observe national and local legal requirements

TEXT OF THE R-PHRASES ASSIGNED TO THE INGREDIENTS/COMPONENTS MENTIONED IN SECTION 3 :

R22	Harmful if swallowed.
R50	Very toxic to aquatic organisms.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

LIST OF THE TEXT OF THE HAZARD STATEMENTS MENTIONED SECTION 3 (H-PHRASES) :

H302	Harmful if swallowed.
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.

Decimal notation: "thousands" places are identified with a dot (for example, "2.000 mg/kg" means "two thousand mg/kg"). Decimal places are identified with a comma (for example, "1,35 g/cm^3" means "one point three five g/cm^3").

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