

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

### 1.1. Product identifier

Tradename: MIXOL® ME 3 Copper

### 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 the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

### GHS label elements

Not a hazardous substance or mixture.

### Other hazards

None known.

## SECTION 3: COMPOSITION / INFORMATION TO INGREDIENTS

### Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
Titanium oxide (TiO <sub>2</sub> )	13463-67-7	>= 10 - < 20
Mica-group minerals	12001-26-2	>= 10 - < 20

salt of polyamineamide (72243/00/2008.0023, Germany)	Not Assigned	$\geq 1 - < 5$
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Actual concentration is withheld as a trade secret.

## SECTION 4: FIRST AID MEASURES

### General advice:

No hazards which require special first aid measures.

### If inhaled:

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

### In case of skin contact:

If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes. .

### 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 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

None known.

## SECTION 5: FIREFIGHTING MEASURES

### Unsuitable extinguishing media

High volume water jet

### Further information:

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

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

**SECTION 7: HANDLING AND STORAGE**

Advice on protection against fire and explosion:

Normal measures for preventive fire protection

Advice on safe handling:

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 container tightly closed in a dry and well-ventilated place.  
Electrical installations / working materials must comply with the technological safety standards.

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
Titanium oxide (TiO <sub>2</sub> )	13463-67-7	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-3
		TWA (respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-3
		TWA respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m <sup>3</sup>	OSHA Z-1
		TWA (Total dust)	10 mg/m <sup>3</sup>	OSHA P0
		TWA	10 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH
Mica-group minerals	12001-26-2	TWA (Respirable particulate matter)	3 mg/m <sup>3</sup>	ACGIH
		TWA (Respirable)	3 mg/m <sup>3</sup>	NIOSH REL

# SAFETY DATA SHEET



USA

Revision Date: 30.11.2020 replace Vers.from 17.01.2019

Tradename: **MIXOL® ME 3 Copper**

page 4/10

		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	3 mg/m <sup>3</sup>	NIOSH REL
		TWA (respirable dust fraction)	3 mg/m <sup>3</sup>	OSHA P0

## Personal protective equipment

### Hand protection

Remarks: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection: Safety glasses.

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

Hygiene measures: 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:	silver
Odour:	characteristic
Odour Threshold:	No data available
pH:	6 -8
	Concentration: 100%
Melting point/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
Upper explosion limit / Upper flammability limit:	No data available
Lower explosion limit / Lower flammability limit:	No data available
Vapor pressure:	No data available
Relative density:	No data available
Solubility(ies) Water solubility	No data available insoluble
Partition coefficient: n- octanol/water:	No data available
Autoignition temperature	No data available
Decomposition temperature:	No data available
Viscosity,	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**

No decomposition if stored and applied as directed.

**Conditions to avoid**

No data available.

## SECTION 11: TOXICOLOGIC INFORMATION

**Acute toxicity**

Not classified based on available information..

**Components:****Titanium oxide (TiO<sub>2</sub>):**

Acute oral toxicity	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat): 6.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	LD50 (Rabbit): > 5,000 mg/kg

**Skin corrosion/irritation:**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**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

**IARC**

Group 2B: Possibly carcinogenic to humans

Titanium oxide (TiO<sub>2</sub>)

13463-67-7

# SAFETY DATA SHEET



USA

Revision Date: 30.11.2020 replace Vers.from 17.01.2019

Tradename: **MIXOL® ME 3 Copper**

page 6/10

## 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

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## SECTION 12: ECOLOGICAL INFORMATION

### Exotoxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Other adverse effects

No data available

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## SECTION 13: DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues:

Do not dispose of waste into sewer.  
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

# SAFETY DATA SHEET



USA

Revision Date: 30.11.2020 replace Vers.from 17.01.2019

Tradename: **MIXOL® ME 3 Copper**

page 7/10

## Domestic regulation

### 49 CFR

Not classified as dangerous in the meaning of transport regulations.

## International regulation

### Remarks:

Not classified as dangerous in the meaning of transport regulations.

### ADR

Not classified as dangerous in the meaning of transport regulations.

### IATA-DGR

Not classified as dangerous in the meaning of transport regulations.

### IMDG-Code

Not classified as dangerous in the meaning of transport regulations.

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

### 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)
Ammonium hydroxide ((NH <sub>4</sub> )(OH))	1336-21-6	1000

### 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** : No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### 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).

# SAFETY DATA SHEET



USA

Revision Date: 30.11.2020 replace Vers.from 17.01.2019

**Tradename: MIXOL® ME 3 Copper**

page 8/10

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

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:.

Ammonium hydroxide ((NH <sub>4</sub> )(OH))	1336-21-6	%
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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Ammonium hydroxide ((NH <sub>4</sub> )(OH))	1336-21-6	%
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This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307  
This product does not contain any priority pollutants related to the U.S. Clean Water Act

## US State Regulations

### Massachusetts Right To Know

Titanium oxide (TiO <sub>2</sub> )	13463-67-7
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Mica-group minerals	12001-26-2
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### Pennsylvania Right To Know

Water	7732-18-5
Titanium oxide (TiO <sub>2</sub> )	13463-67-7
Mica-group minerals	12001-26-2
Ammonium hydroxide ((NH <sub>4</sub> )(OH))	1336-21-6

## 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).



WARNING: This product can expose you to chemicals including Titanium oxide (TiO<sub>2</sub>), which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California List of Hazardous Substances

Mica-group minerals	12001-26-2
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### California Permissible Exposure Limits for Chemical Contaminants

Titanium oxide (TiO <sub>2</sub> )	13463-67-7
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Mica-group minerals	12001-26-2
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# SAFETY DATA SHEET



USA

Revision Date: 30.11.2020 replace Vers.from 17.01.2019

Tradename: **MIXOL® ME 3 Copper**

page 9/10

## The ingredients of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA: On TSCA Inventory

### TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched 127087-87-0

No substances are subject to TSCA 12(b) export notification requirements.

## 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 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

# **SAFETY DATA SHEET**



USA

Revision Date: 30.11.2020 replace Vers.from 17.01.2019

**Tradename: MIXOL® ME 3 Copper**

page 10/10

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

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