SAFETY DATA SHEET



Revision Date: 19.05.2023

In accordance with (EU) Nr. 1907/2006

Tradename: MIXOL® ME 2 Silber (Silver) page 1/17

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

1.1. Product identifier

Tradename: MIXOL® ME 2 Silber (Silver)

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):

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

2.2. Label elements

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

Not a dangerous substance according to GHS.

Additional Labelling

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-

2Hisothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic

reaction.

EUH210 Safety data sheet available on request.

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 ON INGREDIENTS

3.1. Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. INDEX No. Registration No.	Classification Regulation (EC) No. 1272/2008)	Concentration (% w/w)
---------------	--	---	--------------------------

page 2/17

MIXOL® ME 2 Silber (Silver) Tradename:

Aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-1 01-2119529243-45	Flam. Sol. 1; H228	≥ 25 - < 50
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	154518-38-4 (52933-07-0) 01-2119976356-25	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	≥ 3 - < 10
2- dimethylaminoethanol	108-01-0 203-542-8 603-047-00-0	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) specific concentration limit STOT SE 3; H335 >= 5 % STOT SE 3; H335 >= 5 %	>= 0.1 - < 1
Alcohols, C11-14-iso- , C13-rich	68526-86-3 271-235-6 01-2119454259-32	Aquatic Acute 1; H400 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0.25 - < 1
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	≥ 0.0025 - < 0.025
		concentration limit Skin Sens. 1; H317 >= 0.05 % Skin Sens. 1; H317 >= 0.05 %	
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	≥ 0.0002 - < 0.0015

Tradename:	MIXOL®	ME 2	Silber	(Silver)	page 3/17
				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 Corr. 1C; H314 >= 0.6 % Skin Irrit. 2; H315 0.06 - < 0.6 % STOT RE 2; H319 0.06 - < 0.6 % Skin Sens. 1A; H317 >= 0.0015 % Eye Dam. 1; H318 >= 0.6 %	

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.

Do not leave the victim unattended.

If inhaled:

Remove to fresh air

If unconscious place in recovery position and seek medical advice.

If symptoms persist, call a physician.

In case of skin contact:

Wash off immediately with soap and plenty of water.

In case of eye contact:

Immediately flush eye(s) with plenty of water.

Remove contact lenses.

If eye irritation persists, consult a specialist.

If swallowed:

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

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

None known.

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

This information is not available..

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinction agents:

Tradename: MIXOL® ME 2 Silber (Silver) page 4/17

Dry sand

ABC powder

Foam

Unsuitable extinguishing media:

Water

Carbon dioxide (CO2)

5.2. Special hazards arising from the substance or mixture

This information is not available

5.3. Advice for firefighters

Special protective equipment for firefighting:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

Personal precautions

Evacuate personnel to safe areas.

6.2. Environment precautions

Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Use mechanical handling equipment.

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

Wipe up with absorbent material (e.g. cloth, fleece).

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:

For personal protection see section 8.

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

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Hygiene measures:

General industrial hygiene practice.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Earthing of containers and apparatuses is essential.

Take measures to prevent the build up of electrostatic charge.

Use explosion-proof equipment. Store in original container.

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

Advice on common storage:

Do not store near acids.

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

Value type

page 5/17

Tradename: MIXOL® ME 2 Silber (Silver)

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

No materials to be especially mentioned

Further information on storage conditions:

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.	(Form of exposure)	Control parameters	Basis
Aluminium powder (stabilized)	7429-90-5	TWA (Inhalable)	10 mg/m ³	GB EH40
		TWA (Respirable fraction)	4 mg/m ³	GB EH40
		TWA (inhalable dust)	10 mg/m ³	GB EH40
Further information		inhalable dust are the will be collected when accordance with the laccordance of any laccordance dust of any laccordance dust of any laccordance dust of any laccordance dust. The subject to COSHH if these levels. Some down well and exposure appropriate limits., Moreon particles of a wide raid deposition and fate of into the human respir response that it elicites the particle. HSE distilimit-setting purposes respirable, Inhalable of airborne material the fraction that pened in the respiratory trace the fraction that pened of the lung. Fuller defare given in MDHS14 components that hav relevant limits should specific short-term expenses.	these limits, respirable dose fractions of airborne in sampling is undertake methods described in Misampling and gravimetric and inhalable aerosols a substance hazardous kind when present at a qual to or greater than fable dust or 4 mg.m-3 8-is means that any dust is people are exposed to cousts have been assigned to these must comply whost industrial dusts continge of sizes. The behave fraction of the size of	dust which n in DHS14/4 ic analysis s., The to health IO mg.m-3 hour TWA will be dust above d specific ith the ain iour, after entry ody and size of ions for the fraction mouth or deposition oximates to nge region o material n EL, all the ere no figure three

MIXOL® ME 2 Silber (Silver) Tradename: page 6/17

		TWA (Respirable dust)	4 mg/m ³	GB EH40
Further information		inhalable dust are the will be collected wher accordance with the response of includes dust of any respirable, thoracid cosh dust of any respirable dust. The subject to COSHH if these levels. Some down appropriate limits., May particles of a wide range deposition and fate of into the human respirate response that it elicites the particle. HSE dist limit-setting purposes respirable'., Inhalable of airborne material the during breathing and in the respiratory trace the fraction that penes of the lung. Fuller defare given in MDHS14 components that hav relevant limits should specific short-term extimes the long-term extimes the long-t	hese limits, respirable dose fractions of airborne in sampling is undertaked methods described in M sampling and gravimetric and inhalable aerosols a substance hazardous kind when present at a qual to or greater than 1 ble dust or 4 mg.m-3 8-is means that any dust people are exposed to dusts have been assigned to these must comply whost industrial dusts continge of sizes. The behave from any particular particle are atory system, and the bost, depend on the nature inguishes two size fractions are dust approximates to the attenters the nose and is therefore available for the termed 'inhalable' and is therefore available for the termed in the gas excharinitions and explanatory (44., Where dusts contained their own assigned Wilbert own assigned Wilbert own in the signed with the posure limit is listed, a fixposure limit is listed, a fixposure limit should be	dust which in in DHS14/4 ic analysis, The to health 0 mg.m-3 hour TWA will be lust above d specific ith the ain iour, after entry ody and size of ions for he fraction mouth r deposition oximates to nge region material n EL, all the ere no figure three used.
2- 1 dimethylaminoeth a nol	08-01-0	TWA	2 ppm 7.4 mg/m³	GB EH40
		STEL	6 ppm 22 mg/m³	GB EH40

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

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium powder (stabilised)	Workers	Inhalation	long term systemic effects	3.72 mg/m ³
	Workers	Inhalation	long term local effects	3.72 mg/m ³
	Consumers	Oral	long term systemic effects	3.95 mg/kg
Phosphoric acid, C11- 14- isoalkyl esters, C13-rich	Workers	Inhalation	long term systemic effects	34.94 mg/m ³
	Workers	Skin contact	long term systemic effects	100.13 mg/kg

MIXOL® ME 2 Silber (Silver) Tradename: page 7/17

	0	Indianal a Com	In a Anne	40.40
	Consumers	Inhalation	long term systemic effects	10.43 mg/m ³
	Consumers	Skin contact	long term systemic effects	60.08 mg/kg
	Consumers	Ingestion	long term systemic effects	6.01 mg/kg
2,2',2"-nitrilotriethanol	Workers	Inhalation	long term local effects	1 mg/m³
	Workers	Skin contact	long term systemic effects	7.5 mg/kg
	Workers	Skin contact	long term local effects	0.14 mg/cm²
	Consumers	Inhalation	long term local effects	0.4 mg/m ³
	Consumers	Ingestion	long term systemic effects	3.3 mg/kg
	Consumers	Skin contact	long term systemic effects	2.66 mg/kg
	Consumers	Skin contact	long term systemic effects	0.07 mg/m²
2- dimethylaminoethanol	Workers	Inhalation	long term – systemic and local effects	1.76 mg/m³
	Workers	Inhalation	Acute systemic effects	5.28 mg/m³
	Workers	Inhalation	Acute local effects	13.53 mg/m³
	Workers	Skin contact	Long-term systemic effects	0.25 mg/kg
	Workers	Skin contact	Acute systemic effects	1.2 mg/kg
	Workers	Skin contact	Acute local effects	0.080 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	0.43 mg/m³
	Consumers	Ingestion	Long-term systemic effects	0.126 mg/kg
Alcohols, C11-14-iso-, C13-rich	Workers	Skin contact	Long-term systemic effects	416.67 mg/kg
	Workers	Inhalation	Long-term systemic effects	293.86 mg/m³
	Consumers	Skin contact	Long-term systemic effects	250 mg/kg
	Consumers	Inhalation	Long-term systemic effects	89.96 mg/m³
	Consumers	Ingestion	Long-term systemic effects	25 mg/kg

MIXOL® ME 2 Silber (Silver) Tradename: page 8/17

1,2-benzisothiazol3(2H)- one	Workers	Inhalation	Long-term systemic effects	6.81 mg/m³
	Workers	Skin contact	Long-term systemic effects	0.966 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m³
	Consumers	Skin contact	Long-term systemic effects	0.345 mg/kg
reaction mass of 5- chloro- 2-methyl-2H-isothiazol-3- one and 2-methyl- 2Hisothiazol-3-one (3:1)	Workers	Inhalation	Long-term local effects	0.02 mg/m³
	Workers	Inhalation	Acute local effects	0.04 mg/m3
	Consumers	Inhalation	Long-term local effects	0.02 mg/m3
	Consumers	Inhalation	Acute local effects	0.04 mg/m3
	Consumers	Ingestion	Long-term local effects	0.090 mg/kg
	Consumers	Ingestion	Acute local effects	0.11 mg/kg

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

Substance name	Environmental Compartment	Value
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l
Phosphoric acid, C11-14-isoalkyl esters, C13-rich	Fresh water	0.00631 mg/l
	Fresh water sediment	0.113 mg/kg
	Intermittent water release	0.0631 mg/l
	Marine water	0.000631 mg/l
	Marine sediment	0.0113 mg/kg
	STP	10 mg/l
	Soil	0.0188 mg/kg
2,2',2"-nitrilotri- ethanol	Soil	0.151 mg/kg
	Fresh water	0.32 mg/l
	Fresh water sediment	1.7 mg/kg
	clarification plant	10 mg/l
	Marine water	0.032 mg/l
	Marine sediment	0.17 mg/kg

Tradename: MIXOL® ME 2 Silber (Silver) page 9/17

Marine water 0.004 mg/l Intermittent Release 661 µg/l STP 10 mg/l Fresh water sediment 0.246 mg/kg dry weight (d.w.) Soil 0.0177 mg/kg Marine sediment 0.015 mg/kg dry weight (d.w.) Alcohols, C11-14-iso-, C13-rich STP 105.3 mg/l Fresh water sediment 115.6 mg/kg Soil 93.7 mg/kg 1,2-benziso-thiazol-3(2H)-one Fresh water 0.00403 mg/l Marine water 0.00403 mg/l STP 0.00103 mg/l Intermittent water release 0.0011 mg/l Intermittent Release 0.0011 mg/l Fresh water sediment 0.0499 mg/kg Soil 3 mg/kg reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Fresh water 0.00339 mg/l Marine water 0.00339 mg/l Intermittent Release 0.00339 mg/l STP 0.23 mg/l STP 0.23 mg/l Fresh water sediment 0.027 mg/kg O.0471 mg/kg Fresh water sediment 0.027 mg/	2- dimethylaminoeth anol	Fresh water	0.0661 mg/l
STP		Marine water	0.004 mg/l
Fresh water sediment 0.246 mg/kg dry weight (d.w.)		Intermittent Release	661 μg/l
Soil 0.0177 mg/kg		STP	10 mg/l
Marine sediment 0.015 mg/kg dry weight (d.w.)		Fresh water sediment	0.246 mg/kg dry weight (d.w.)
Alcohols, C11-14- iso-, C13-rich Fresh water sediment 115.6 mg/kg Soil 93.7 mg/kg 1,2-benziso- thiazol-3(2H)-one Marine water 0.00403 mg/l STP 0.00103 mg/l Intermittent water release 0.0011 mg/l Intermittent Release 0.00011 mg/l Fresh water sediment 0.0499 mg/kg Marine sediment 0.00499 mg/kg Fresh water reaction mass of 5-chloro-2- methyl-2H- isothiazol-3-one and 2-methyl-2H- isothiazol-3-one (3:1) Intermittent water release 0.00339 mg/l Intermittent Release 0.00339 mg/l STP 0.23 mg/l Soil STP 0.23 mg/l Soil O.0471 mg/kg Fresh water sediment 0.027 mg/kg Marine sediment 0.027 mg/kg Marine sediment 0.027 mg/kg Marine sediment 0.027 mg/kg Marine sediment 0.027 mg/kg		Soil	0.0177 mg/kg
Soil		Marine sediment	0.015 mg/kg dry weight (d.w.)
Soil 93.7 mg/kg		STP	105.3 mg/l
1,2-benziso- thiazol-3(2H)-one Fresh water 0.00403 mg/l Marine water 0.000403 mg/l STP 0.00103 mg/l Intermittent water release 0.0011 mg/l Intermittent Release 0.00011 mg/l Fresh water sediment 0.0499 mg/kg Marine sediment 0.00499 mg/kg Soil 3 mg/kg reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Fresh water Marine water 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		Fresh water sediment	115.6 mg/kg
thiazol-3(2H)-one Marine water 0.000403 mg/l STP 0.00103 mg/l Intermittent water release 0.0011 mg/l Intermittent Release 0.00011 mg/l Fresh water sediment 0.0499 mg/kg Marine sediment 0.00499 mg/kg Soil 3 mg/kg reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 0.00339 mg/l Marine water 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	93.7 mg/kg
STP		Fresh water	0.00403 mg/l
Intermittent water release		Marine water	0.000403 mg/l
Intermittent Release		STP	0.00103 mg/l
Fresh water sediment		Intermittent water release	0.0011 mg/l
Marine sediment 0.00499 mg/kg		Intermittent Release	0.00011 mg/l
Soil 3 mg/kg		Fresh water sediment	0.0499 mg/kg
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) Intermittent water release Intermittent Release O.00339 mg/l Marine water O.00339 mg/l Intermittent Release O.00339 mg/l STP O.23 mg/l Soil O.0471 mg/kg Fresh water sediment O.027 mg/kg Marine sediment O.027 mg/kg		Marine sediment	0.00499 mg/kg
5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) 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	3 mg/kg
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	5-chloro-2- methyl-2H- isothiazol-3-one and 2-methyl-2H- isothiazol-3-one	Fresh water	0.00339 mg/l
Intermittent Release		Intermittent water 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		Marine water	0.00339 mg/l
Soil 0.0471 mg/kg Fresh water sediment 0.027 mg/kg Marine sediment 0.027 mg/kg		Intermittent Release	0.00339 mg/l
Fresh water sediment 0.027 mg/kg Marine sediment 0.027 mg/kg		STP	0.23 mg/l
Marine sediment 0.027 mg/kg		Soil	0.0471 mg/kg
		Fresh water sediment	0.027 mg/kg
Soil 0.01 mg/kg		Marine sediment	0.027 mg/kg
<u> </u>		Soil	0.01 mg/kg

8.2. Exposure controls

Personal protective equipment

Eye/face protection:

Goggles

Safety glasses

Hand protection:

Material: Solvent resistant gloves (butyl-rubber)

Tradename: MIXOL® ME 2 Silber (Silver) page 10/17

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). Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the

protective gloves.

Skin and body protection:

Protective suit

Respiratory protection:

Use suitable breathing protection if workplace concentration requires.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Appearance

Appearance: liquid Colour: silver

Odour: characteristic
Odour Threshold: no data available
Freezing point: no data available
Boiling point/boiling range: no data available
Flammibility no data available
Upper explosion limit / Upper: no data available

flammability limit

Lower explosion limit / Lower : no data available

flammability limit:

Flash point > 100 °C

Auto-ignition temperature: No data available Decomposition temperature: No data available

pH: 6-8

Concentration: 100 % Viscosity, kinematic:
Water solubility:
Solubility in other solvents:

No data available
No data available

Solubility in other solvents:

Partition coefficient: noctanol/water:

Vapour pressure:

Relative density:

Density:

Relative vapour density:

Particle Size Distribution:

No data available

No data available

No data available

No data available

9.2. Other information

No data available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical Stability

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions:

Contact with acids and alkalis may release hydrogen.

Tradename: MIXOL® ME 2 Silber (Silver) page 11/17

Stable under recommended storage conditions.

No hazards to be specially mentioned.

10.4. Conditions to avoid

Do not allow evapouration to dryness.

No data available.

10.5. Incompatible Materials

Materials to avoid:

Acids Bases

Oxidizing agents

10.6. Hazardous decomposition products

This information is not available.

SECTION 11: TOXICOLOGIC INFORMATION

11.1. Acute Toxicity

Not classified based on available information.

Product:

Acute inhalation toxicit: Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

aluminium powder (stabilised):

Acute inhalation toxicit: LC50 (Rat): > 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

2-dimethylaminoethanol:

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

single ingestion.

Acute inhalation toxicit: Assessment: The component/mixture is toxic after short term

inhalation.

Acute dermal toxicity Assessment: The component/mixture is minimally toxic after

single contact with skin.

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

Acute oral toxicity: Assessment: The component/mixture is moderately toxic

after single ingestion.

Acute inhalation toxicit: 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.

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1):

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

ingestion.

Acute inhalation toxicit: Assessment: The component/mixture is highly toxic after

short term inhalation.

Acute dermal toxicity Assessment: The component/mixture is highly toxic after

single contact with skin.

Skin corrosion/irritation

Not classified based on available information.

Tradename: MIXOL® ME 2 Silber (Silver) page 12/17

Product:

Result: No skin irritation

Remarks: Based on available data, the classification criteria are not met.

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Result: Skin irritation

2-dimethylaminoethanol:

Result: Corrosive after 3 minutes to 1 hour of exposure

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

Result: Skin irritation

Serious eye damage/eye irritation:

Not classified based on available information.

Product:

Result: No eye irritation

Remarks: Based on available data, the classification criteria are not met.

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Result: Corrosive

2-dimethylaminoethanol:

Result: Corrosive

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

Result: Corrosive

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one

(3:1):

Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

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

Result: May cause sensitisation by skin contact.

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.

Components:

2-dimethylaminoethanol:

Assessment: The substance or mixture is classified as specific target organ toxicant,

single exposure, category 3 with respiratory tract irritation.

STOT - repeated exposure

Not classified based on available information.

Tradename: MIXOL® ME 2 Silber (Silver) page 13/17

Aspiration toxicity

Not classified based on available information.

11.2. Information on other hazards

Further Information

Product:

Result: No data available

Section 12: Ecological information

12.1. Toxicity:

Product:

Ecotoxicology Assessment:

Acute aquatic toxicity: This product has no known ecotoxicological effects.

Chronic aquatic toxicity: This product has no known ecotoxicological effects.

Components:

Phosphoric acid, C11-14-isoalkyl esters, C13-rich:

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

EC50 (Daphnia magna (Water flea)): 6.31 mg/l

aquatic invertebrates Exposure time: 48 h
Toxicity to algae: EC50 (algae): 150 mg/l

Exposure time: 72 h

2-dimethylaminoethanol:

Toxicity to daphnia and other: (Daphnia (water flea)): 98.77 mg/l

aquatic invertebrates

Toxicity to algae/aquatic: (Chlorella pyrenoidosa (algae)): 35 mg/l

plants Exposure time: 72 h

Alcohols, C11-14-iso-, C13-rich:

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

Ecotoxicology Assessment:

Acute aquatic toxicity: Very toxic to aquatic life.

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

Acute aquatic toxicity: Very toxic to aquatic life.

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects

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): 100

aquatic hazard)

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

aquatic hazard)

Ecotoxicology Assessment:

Acute aquatic toxicity: Very toxic to aquatic life.

hazard:

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

12.2. Persistence and degradability

No data available.

Tradename: MIXOL® ME 2 Silber (Silver) page 14/17

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

Product:

Assessment: This substance/mixture contains no components considered to be

either persistent, bioaccumulative and toxic (PBT), or very persistent

and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

Product:

Additional ecological

No data available

information

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

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling

or disposal.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR: Not regulated as a dangerous good IMDG: Not regulated as a dangerous good

IATA: UN 9999

Not permitted for transport

14.2 UN proper shipping name

ADR: Not regulated as a dangerous good IMDG: Not regulated as a dangerous good

IATA: Not permitted for transport

14.3 Transport hazard class(es)

ADR: Not regulated as a dangerous good IMDG: Not regulated as a dangerous good

IATA: Not permitted for transport

14.4 Packing group

ADR: Not regulated as a dangerous good IMDG: Not regulated as a dangerous good

IATA (Cargo): Not permitted for transport IATA (Passenger):Not permitted for transport

14.5 Environmental hazards

ADR: Not regulated as a dangerous good IMDG: Not regulated as a dangerous good

14.6. Special precautious for user

Remarks: Due to the risk of hydrogen development we recommend to refrain from

airfreighting this/these product(s).

Not classified as dangerous in the meaning of transport regulations.

Tradename: MIXOL® ME 2 Silber (Silver)

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,

preparations and articles (Annex XVII)

Conditions of restriction for the following entries should be

considered:

aluminium powder (stabilised)

(Number on list 40)

Phosphoric acid, C11-14-isoalkyl esters, C13-rich (Number on list 3) 2-dimethylaminoethanol (Number on

page 15/17

list 40, 3)

Alcohols, C11-14-iso-, C13-rich

(Number on list 3)

UK REACH Candidate list of substances of very high:

concern (SVHC) for Authorisation

Not applicable

Not applicable

The Persistent Organic Pollutants Regulations :

(retained Regulation (EU) 2019/1021 as amended

for Great Britain)

Regulation (EC) No 1005/2009 on substances that :

deplete the ozone layer

Not applicable

UK REACH List of substances subject to authorisation : Not applicable

(Annex XIV)

15.2. Chemical safety assessment

No data available

SECTION 16: OTHER INFORMATION

Full text of H-Statements:

H226	Flammable solid liquid and vapour.
H228	Flammable solid
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
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.

MIXOL[®] ME 2 Tradename: Silber (Silver) page 16/17

Full text of other abbreviations

Acute Tox.: Acute toxicity

Aquatic Acute: Short-term (acute) aquatic hazard Aquatic Chronic: Long-term (chronic) aquatic hazard

Serious eve damage Eve Dam.: Flammable liquids Flam. Liq.: Flam. Sol.: Flammable solids Skin Corr.: Skin corrosion Skin Irrit.: Skin irritation Skin Sens.: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure UK. EH40 WEL - Workplace Exposure Limits GB EH40:

GB EH40 / TWA: Long-term exposure limit (8-hour TWA reference period) GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

Legend

ADN European Agreement concerning the International Carriage of

Dangerous Goods by Inland Waterways

ADR European Agreement concerning the International Carriage of

Dangerous Goods by Road

AICS Australian Inventory of Chemical Substances **ASTM** American Society for the Testing of Materials

Body weight bw

Classification Labelling Packaging Regulation CLP

Regulation (EC) No 1272/2008

CMR Carcinogen, Mutagen or Reproductive Toxicant DIN Standard of the German Institute for Standardisation **DMEL** Derived Minimal Effect Level (genotoxic substances)

Derived No Effect Level DNEL

DSL Domestic Substances List (Canada) **ECHA European Chemicals Agency EC-Number** European Community number

Concentration associated with x% response ECx Loading rate associated with x% response ELx

Emergency Schedule EmS

Existing and New Chemical Substances (Japan) **ENCS** ErCx Concentration associated with x% growth rate response

GHS Globally Harmonized System **GLP** Good Laboratory Practice

IARC International Agency for Research on Cancer IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships

carrying Dangerous Chemicals in Bulk Half maximal inhibitory concentration

IC50 International Civil Aviation Organization **ICAO**

IECSC Inventory of Existing Chemical Substances in China

IMDG International Maritime Dangerous Goods IMO International Maritime Organization ISHL Industrial Safety and Health Law (Japan) International Organisation for Standardization ISO

Korea Existing Chemicals Inventory **KECI**

Lethal Concentration to 50 % of a test population LC50

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose) **MARPOL** International Convention for the Prevention of Pollution from Ships

Not Otherwise Specified n.o.s.

No Observed (Adverse) Effect Concentration NO(A)EC

No Observed (Adverse) Effect Level NO(A)EL **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

Tradename:	MIXOL® ME 2 Silber (Silver)	page 17/17
PBT	Persistent, Bioaccumulative and Toxic substance	
PICCS	Philippines Inventory of Chemicals and Chemical Substances	
(Q)SAR	(Quantitative) Structure Activity Relationship	
RÉACH	Regulation (EC) No 1907/2006 of the European Parliament and of	the
	Council concerning the Registration, Evaluation, Authorisation and	
	Restriction of Chemicals	
RID	Regulations concerning the International Carriage of Dangerous G	oods
	by Rail	
SADT	Self-Accelerating Decomposition Temperature	
SDS	Safety Data Sheet	
TCSI	Taiwan Chemical Substance Inventory	
TRGS	Technical Rule for Hazardous Substances	
TSCA	Toxic Substances Control Act (United States)	
UN	United Nations	
vPvB	Very Persistent and Very Bioaccumulative	

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/cm³" means "one point three five g/cm³").

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.