according to UK REACH Regulation

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

MIXOL ME3 Kupfer

UFI: 32H2-FGGN-5P0R-YQAJ

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Paints and varnishes

1.3. Details of the supplier of the safety data sheet

Company name: MIXOL-PRODUKTE Diebold GmbH

Street: Carl-Zeiss-Str. 17-19
Place: D-73230 Kirchheim/Teck

Telephone: +49/(0)7021 / 950090 Telefax: +49/(0)7021 / 56030

e-mail: info@mixol.de
e-mail (Contact person): Technik@mixol.de
Internet: www.mixol.de
Responsible Department: Technik

1.4. Emergency telephone Emergency CONTACT (24 h) GBK GmbH +49/(0)6132 / 84463

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

maleic anhydride

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

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

Signal word: Warning

Pictograms:



Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name					
	EC No	Index No	REACH No			
	GHS Classification	•	•			
	Polyaminamidsalz (72243/00/2008	3.0023, Germany)		1 - < 10 %		
	Skin Irrit. 2; H315					
108-31-6	maleic anhydride					
	203-571-6	607-096-00-9				
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1A, STOT RE 1; H302 H314 H318 H334 H317 H372 EUH071					
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one					
	220-120-9	613-088-00-6	01-2120761540-60			
	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H330 H302 H315 H318 H317 H400 H411					
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)					
	-	613-167-00-5	01-2120764691-48			
	Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071					

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

After inhalation

Provide fresh air. If unconscious but breathing normally, place in recovery position and seek medical advice. If experiencing respiratory symptoms: Call a doctor.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs. @0405.B004145 Get medical advice/attention.

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

May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

according to UK REACH Regulation

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Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water iet

5.2. Special hazards arising from the substance or mixture

Non-flammable.

In case of fire may be liberated: Pyrolysis products, toxic

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Use personal protection equipment.

Advice on protection against fire and explosion

Usual measures for fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Store in a well-ventilated place. Store in a dry place.

Hints on joint storage

No information available.

7.3. Specific end use(s)

Colour, Pigment

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

according to UK REACH Regulation

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
-	Dust, inhalable	-	10		TWA (8 h)	WEL
-	Dust, respirable	-	4		TWA (8 h)	WEL
108-31-6	Maleic anhydride	-	1	·	TWA (8 h)	WEL
		-	3		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
108-31-6	maleic anhydride					
Worker DNEL,	acute	inhalation	systemic	0,8 mg/m³		
Worker DNEL,	acute	inhalation	local	0,8 mg/m³		
Worker DNEL,	long-term	inhalation	systemic	0,4 mg/m³		
Worker DNEL,	long-term	inhalation	local	0,4 mg/m³		
Worker DNEL,	long-term	dermal	systemic	0,04 mg/kg bw/day		
Worker DNEL,	acute	dermal	systemic	0,04 mg/kg bw/day		
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one					
Worker DNEL,	long-term	inhalation	systemic	6,81 mg/m³		
Worker DNEL, long-term		dermal	systemic	0,966 mg/kg bw/day		
Consumer DN	EL, long-term	inhalation	systemic	1,2 mg/m³		
Consumer DN	EL, long-term	dermal	systemic	0,345 mg/kg bw/day		
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one a	nd 2-methyl-2H-isothia	azol-3-one (3:1)			
Worker DNEL,	long-term	inhalation	local	0,02 mg/m³		
Worker DNEL,	acute	inhalation	local	0,04 mg/m³		
Consumer DN	EL, long-term	inhalation	local	0,02 mg/m³		
Consumer DNEL, acute		inhalation	local	0,04 mg/m³		
Consumer DNEL, long-term		oral	systemic	0,11 mg/kg bw/day		
Consumer DN	EL, acute	oral	systemic	0,09 mg/kg bw/day		

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PNEC values

T IVEO Value		
CAS No	Substance	
Environment	al compartment	Value
108-31-6	maleic anhydride	
Freshwater	•	0,04281 mg/l
Freshwater (i	intermittent releases)	0,4281 mg/l
Marine water	•	0,004281 mg/l
Freshwater s	rediment	0,344 mg/kg
Marine sedim	nent	0,0334 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	44,6 mg/l
Soil		0,0415 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	
Freshwater		0,00403 mg/l
Freshwater (i	intermittent releases)	0,0011 mg/l
Marine water	•	0,000403 mg/l
Marine water (intermittent releases)		0,0011 mg/l
Freshwater s	rediment	0,0499 mg/kg
Marine sedim	nent	0,00499 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	1,03 mg/l
Soil		3 mg/kg
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-	isothiazol-3-one (3:1)
Freshwater		0,00339 mg/l
Freshwater (i	intermittent releases)	0,00339 mg/l
Marine water		0,00339 mg/l
Marine water	0,00339 mg/l	
Freshwater s	rediment	0,027 mg/kg
Marine sedim	nent	0,027 mg/kg
Micro-organis	sms in sewage treatment plants (STP)	0,23 mg/l
Soil		0,01 mg/kg

8.2. Exposure controls





Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

Eye/face protection

Wear eye/face protection.

Hand protection

Wear protective gloves.

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When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Use of protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Copper
Odour: characteristic

pH-Value: 6 - 8

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

not determined

100 °C

boiling range:

Flash point: > 100 °C

Flammability

not applicable Solid: Gas: not applicable not determined Lower explosion limits: not determined Upper explosion limits: not determined Auto-ignition temperature: not determined Decomposition temperature: Vapour pressure: not determined Density: not determined Water solubility: (Pigment) practically insoluble

Solubility in other solvents

not determined

Partition coefficient n-octanol/water:

Viscosity / kinematic:

Relative vapour density:

not determined

not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

ATEmix calculated: oral: > 2000 mg/kg dermal: > 2000 mg/kg

Inhalation (vapour): >20 mg/L (4 h) Inhalation (dust/mist): > 5 mg/L (4h)

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
108-31-6	maleic anhydride					
	oral	ATE mg/kg	500			
2634-33-5	1,2-benzisothiazol-3(2H)	-one; 1,2-be	nzisothiazolir	n-3-one		
	oral	LD50 mg/kg	670 - 784	Rat	Manufacturer	OECD 401
	dermal	LD50 mg/kg	> 2000	Rat	Manufacturer	
	inhalation vapour	ATE	0,5 mg/l			
	inhalation (4 h) dust/mist	LC50	0,5 mg/l	Rat	Manufacturer	OPPTS 870.1300
55965-84-9	reaction mass of 5-chlore	o-2-methyl-2	H-isothiazol-	3-one and 2-methyl-2H-isc	othiazol-3-one (3:1)	
	oral	LD50	64 mg/kg	Rat	Manufacturer	
	dermal	LD50 mg/kg	92,4	Rabbit	Manufacturer	
	inhalation vapour	ATE	0,5 mg/l			
	inhalation (4 h) dust/mist	LC50 mg/l	0,171	Rat	Manufacturer	

Irritation and corrosivity

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

In case of skin contact: slightly irritant but not relevant for classification.

Sensitising effects

May cause an allergic skin reaction. (maleic anhydride; 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1))

Carcinogenic/mutagenic/toxic effects for reproduction

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

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STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one							
	Acute algae toxicity	ErC50 mg/l	0,155		Selenastrum capricornutum	Manufacturer	OECD 201	
	Fish toxicity	NOEC mg/l	0,21		Oncorhynchus mykiss (Rainbow trout)	Manufacturer	OECD 215	
	Acute bacteria toxicity	(EC50	23 mg/l)	3 h	Activated sludge	Manufacturer	OECD 209	
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)							
	Acute bacteria toxicity	(EC50 mg/l)	7,92	3 h	Activated sludge	Manufacturer	OECD 209	

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	-0,71 - 0,75

BCF

CAS No	Chemical name	BCF	Species	Source
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	6,62	Lepomis macrochirus (Bluegill)	Manufacturer
	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	3,6		Manufacturer

12.4. Mobility in soil

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

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Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:No dangerous good in sense of this transport regulation.14.2. UN proper shipping name:No dangerous good in sense of this transport regulation.14.3. Transport hazard class(es):No dangerous good in sense of this transport regulation.14.4. Packing group:No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2004/42/EC (VOC): < 1 %

Information according to 2012/18/EU

(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

National regulatory information

according to UK REACH Regulation

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Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

Relevant H and EUH statements (number and full text)

Toxic if swallowed.
Harmful if swallowed.
Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

according to UK REACH Regulation

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H317	May cause an allergic skin reaction.				
H318	Causes serious eye damage.				
H330	Fatal if inhaled.				
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
H372	Causes damage to organs through prolonged or repeated exposure.				
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.				
EUH071	Corrosive to the respiratory tract.				
Further Information					
The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible					

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)

for adhering to existing laws and regulations.