

SAFETY DATA SHEET



in acc. with Regulation (EU) No. 2015/830

Revision Date: 25.05.2018 Replace Vers. 08.09.2015

Tradename: MIXOL® No. 1 Schwarz (Black)

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

1.1. Product identifier

Tradename: MIXOL® No. 1 Schwarz (Black)

Chemical

Characterisation: C.I. Pigment Black 7 and Calciumcarbonat in aqueous dispersion, containing Polyglykol and 1,2-Propandiol.

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

Relevant 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

Emergency CONTACT (24 hours-Number) GBK GmbH +49/(0)6132/84463

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance / mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended):

Category of danger	Category Hazard Symbol	H-Phrases
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Not a hazardous substance or mixture.

2.2. Label elements

Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended):

Not a hazardous substance or mixture.

Additional Labelling:

EUH 208 contains mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one
2-methyl-4-isothiazolin-3-one and
1,2-benzisothiazolin-3-one.

May produce an allergic reaction.

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.

No hazards to be specially mentioned.

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SECTION 3: COMPOSITION / INFORMATION TO INGREDIENTS

3.1. Mixtures

Hazardous ingredients:

Alcohols, C16-18 and C18-unsaturated, ethoxylated (10-14 EO)

Concentration: $\geq 6,2$ - $\leq 10,7$ %

CAS number: 68920-66-1

EG number: 500-236-9

GHS classification EC:

Skin irritation	Category 2	H315
Chronic aquatic toxicity	Category 3	H412

1-Propanaminium, 3-Amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18-Acyl-derivate, Hydroxide, inner salts

Concentration: $\geq 1,0$ - $\leq 2,5$ %

CAS number: 97862-59-4

EC number: 308-107-7

Registration No.: 01-2119488533-30-0011

GHS classification EC:

Serious eye damage	Category 1	H318
Chronic aquatic toxicity	Category 3	H412

1,2-Benzisothiazolin-3-on

Concentration: $< 0,05$ %

CAS-number: 2634-33-5

EG-number: 220-120-9

INDEX-No.: 613-088-00-6

GHS classification EC:

Acute toxicity	Category 4	H302
Fatal if inhaled	Category 2	H330
Skin irritation	Category 2	H315
May cause an allergic skin reaction	Category 1	H317
Serious eye damage	Category 1	H318
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

2-Methyl-4-isothiazolin-3-on

Concentration: $< 0,1$ %

CAS-number: 2682-20-4

EG-number: 220-239-6

GHS classification EC:

Toxic if swallowed	Category 3	H301
Fatal if inhaled	Category 2	H330
Causes severe skin burns and eye d.	Category 1B	H314
May cause an allergic skin reaction	Category 1	H317
Serious eye damage	Category 1	H318
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 2	H411

The text of H-phrases is shown in section 16.

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SECTION 4: FIRST AID MEASURES

4.1. Discription of first aid measures

General information:

Get medical advice / attention if you feel unwell.

After inhalation:

Move the victim to fresh air.

If you feel unwell, seek medical advice (show the label where possible).

After contact with skin:

In case of contact with skin, clean with plenty of soap and water.

After contact with eyes:

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After ingestion:

If swallowed, seek medical advice immediately and show this container or label.

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

Symptoms:

None known.

Hazards:

None known.

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

Treatment:

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet

Dry powder

Carbon dioxide (CO₂)

Alcohol resistant foam

Extinguishing media that must not be used for safety reasons:

High volume water jet

5.2. Special hazards arising from the substance or mixture

In case of fires, hazardous combustion gases are formed:

Carbon oxides

Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Special protective equipment for firefighting:

Use self-contained breathing apparatus.

Further information:

Wear suitable protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable personal protective equipment.

6.2. Environment precautions

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

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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).

Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

Additional information:

Information regarding safe handling, see chapter 7.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling:

When used and handled appropriately no special measures are needed.

Hygiene measures:

Wash hands before breaks and at the end of workday.

Use protective skin cream before handling the product.

Take off immediately all contaminated clothing and wash it before reuse.

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions:

Keep containers tightly closed in a cool, well-ventilated place.

Handle and open container with care.

Keep away from flames and sparks.

Storage stability:

Minimum 36 months.

7.3. Specific end use(s)

No further recommendations.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Exposure limit values:

Exposure limit values are not available.

DNEL / DMEL-values:

Amorphous silicon dioxide

EC number: 231-545-4

CAS number: 7631-86-9

Route of exposure	End use	Potential health effects	Value	Remarks
Inhalation	Workers	Long-term local effects	4 mg/m ³	DNEL

1-Propanaminium, 3-Amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18-Acyl derivative, Hydroxide, inner salts

EG-Number: 30-107-7

CAS-Number: 97862-59-4

Route of exposure	End use	Potential health effects	Value	Remarks
Inhalation	Workers	Long-term systemic effects	44 mg/m ³	DNEL
Skin contact	Workers	Long-term systemic effects	12,5 mg/kg bw/day	DNEL

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Skin contact	General population	Long-term systemic effects	7,5 mg/kg bw/day	DNEL
Ingestion	General population	Long-term systemic effects	7,5 mg/kg bw/day	DNEL

PNEC-values:

1-Propanaminium, 3-Amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18-Acylderivate, Hydroxide, inner salts

EG-Nummer: 30-107-7

CAS-Nummer: 97862-59-4

Environmental compartment	Value
Fresh water	0,013 mg/l
Salt water	0,001 mg/l
Water (intermittent release)	3000 mg/l
Fresh water sediment	1 mg/kg dry weight (d.w.)
Marine sediment	0,1 mg/kg dry weight (d.w.)
Soil	0,8 mg/kg dry weight (d.w.)

8.2. Exposure controls

Appropriate engineering controls:

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

General protective measures:

Wear suitable protective equipment.

Respiratory protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection:

Nitrile rubber

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).

Eye protection:

Safety glasses

Body protection:

Wear suitable protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Form:	liquid
Colour:	black
Odour:	not significant
Odour threshold:	not required
pH value:	not measured
Melting point:	not applicable
Boiling point:	approx. 100 °C
Flash point:	> 100 °C
Evaporation rate:	not determined
Flammability:	not determined
Lower explosion limit:	not determined
Upper explosive limit:	not determined
Combustion number:	not applicable
Minimum ignition energy:	not determined

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Vapour pressure:	not determined
Vapour density relative to air:	not determined
Relative Density:	no data available
Solubility in water:	miscible
Octanol/ water partition coefficient (log Pow):	not determined
Ignition temperature:	not determined
Thermal decomposition:	> 100 °C
Viscosity (dynamic):	not tested
Oxidizing properties:	no data available

9.2. Other information

Density:	1,20 g/cm ³ (20 °C)
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.
Stable.

10.4. Conditions to avoid

None known.

10.5. Incompatible Materials

No data available.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: TOXICOLOGIC INFORMATION

11.1. Information on toxicological effects

Acute oral toxicity:	no data available
Acute dermal toxicity:	Acute toxicity estimate > 2.000 mg/kg Method: Calculation method
Acute inhalation toxicity:	no data available
Irritant effect on skin:	no data available
Irritant effect on eyes:	no data available
Respiratory or skin sensitization:	no data available
Assessment of mutagenicity:	no information available
Assessment of carcinogenicity:	no information available
Assessment of toxicity to reproduction:	no information available
Specific target organ toxicity (STOT) - single exposure:	no data available
Specific target organ toxicity (STOT) - repeated exposure:	no data available
Repeated dose toxicity:	This information is not available.
Aspiration toxicity:	no data available

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Information related to the component 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 acyl derivs., hydroxides, inner salts:

Acute oral toxicity: LD50 (Rat): > 5.000 mg/kg

Information related to the component 1,2-Benzisothiazol-3(2H)-one:

Acute oral toxicity: LD50 (Rat, male and female): 670 - 784 mg/kg
Method: OECD Test Guideline 401
GLP: yes

Acute inhalation toxicity: LC50 (Rat, male and female): 0,5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPPTS 870.1300
GLP: yes

Acute dermal toxicity: LD50 (Rat, male and female): > 2.000 mg/kg
GLP: yes

Skin corrosion/irritation: Species: Rabbit
Exposure time: 4 h
Result: Skin irritation
GLP: yes

Serious eye damage / eye irritation: Species: rabbit eye
Exposure time: 2,9 h - 11 d
Result: Eye irritation
GLP: yes

Respiratory or skin sensitization: Test Type: Guinea pig maximization test
Exposure routes: Dermal
Species: Guinea pig
Method: Other
Result: Causes sensitisation.
GLP: yes

Genotoxicity in vitro: Test Type: Mouse lymphoma assay
Species: mouse lymphoma cells
Concentration: 0,1 - 12,8 µg/ml
Metabolic activation: with and without
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Ames test
Species: Salmonella typhimurium
Concentration: 0,064 - 200 µg/plate
Metabolic activation: with and without
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Species: Human lymphocytes
Concentration: 1 - 40 µg/ml
Metabolic activation: with and without
Method: OECD Test Guideline 473
Result: positive
GLP: yes

Genotoxicity in vivo: Test Type: Other
Species: Rat (male)
Strain: wistar
Cell type: Liver cells
Application Route: Ingestion
Exposure time: single dose

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Dose: 560 - 1400 mg/kg
Method: OECD Test Guideline 486
Result: negative
GLP: yes

Test Type: Micronucleus test
Species: Mouse (male and female)
Strain: CD1
Cell type: Bone marrow
Application Route: Ingestion
Exposure time: single dose
Dose: 125-250-500-1000-2000-5000mg/k
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Germ cell mutagenicity -
Assessment:

It is concluded that the product is not mutagenic based
on evaluation of several mutagenicity tests.

Carcinogenicity - Assessment:

Not applicable.

Reproductive toxicity -
Effects on fertility:

Species: Rat
Sex: male
Dose: 18,5 - 97,8 mg/kg
Exposure time: 19w (P), 21w (F1)
Frequency of Treatment: daily
Application Route: oral (feed)
Test period: 38 w
Group: yes
NOAEL: 18,5 mg/kg,
F1: 48 mg/kg,
Method: Other
GLP: yes

Species: Rat
Sex: female
Dose: 27,0 - 114,8 mg/kg
Exposure time: 18w (P), 19w (F1)
Frequency of Treatment: daily
Application Route: oral (feed)
Test period: 38 w
Group: yes
NOAEL: 27,0 mg/kg,
F1: 56,6 mg/kg,
Method: Other
GLP: yes

Effects on foetal development:

Species: Rat, female
Application Route: oral (gavage)
Exposure time: days 7-16 of gestation
Dose: 10 - 40 - 100 mg/kg
Group: yes
40 mg/kg
10 mg/kg
Number of exposures: daily
Test period: 10 d
Method: Directive 67/548/EEC, Annex V, B.31.
GLP: yes

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Reproductive toxicity –
Assessment:

Weight of evidence does not support classification for reproductive toxicity.

Embryotoxicity classification not possible from current data.

STOT - single exposure:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity:

Species: Dog, male and female
NOAEL: 5 mg/kg
LOAEL: 20 mg/kg
Application Route: oral (gavage)
Exposure time: 90 d
Number of exposures: daily
Dose: 5 - 20 - 50 mg/kg
Group: yes
Method: 88/302/EC
GLP: yes

Aspiration toxicity:

No aspiration toxicity classification.

Informations related to the component 2-Methylisothiazolin-3-one:

Acute oral toxicity:

LD50 (Rat): 50 - 300 mg/kg

Acute inhalation toxicity:

LC50 (Rat): 0,00053 mg/l
Exposure time: 4 h

Acute dermal toxicity:

LD50 (Rat): > 2.000 mg/kg

Skin corrosion/irritation:

Species: Rabbit
Result: corrosive

Serious eye damage / eye irritation:

Species: rabbit eye
Risk of serious damage to eyes.

Respiratory or skin sensitization:

Test Type: Mouse local lymphnode assay
Exposure routes: Dermal
Species: Mouse
Method: OECD Test Guideline 429
Result: Causes sensitisation.

Genotoxicity in vitro:

Test Type: Ames test
Metabolic activation: with and without
Result: negative

Test Type: Chromosome aberration test in vitro
Species: mammalian cells
Metabolic activation: with and without
Result: negative

Test Type: Micronucleus test
Species: mammalian cells
Metabolic activation: with and without
Result: negative

Germ cell mutagenicity-
Assessment:

It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Carcinogenicity-
Assessment:

No information available.

Reproductive toxicity -
Effects on fertility:

This information is not available.

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Effects on foetal development:	By analogy with a product of similar composition based on available data, the classification criteria are not met.
Reproductive toxicity – Assessment:	No teratogenic effects to be expected.
STOT - single exposure:	no data available
STOT - repeated exposure:	no data available
Repeated dose toxicity:	Species: Rat NOAEL: 25 mg/kg Application Route: Oral Exposure time: 90 d Remarks: By analogy with a product of similar composition.
Aspiration toxicity:	No aspiration toxicity classification.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Information related to the product itself:

Fish toxicity:	no data available
Fish toxicity (chronic):	no data available
Daphnia toxicity:	no data available
Algae toxicity:	no data available
Bacteria toxicity:	no data available

Information related to the component 1,2-Benzisothiazol-3(2H)-one:

Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 2,18 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes LC50 (Cyprinodon variegatus (sheepshead minnow)): approx. 16,7 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: No information available. GLP: yes
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 2,94 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes EC0 (Daphnia magna (Water flea)): 0,643 mg/l Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes EC50 (Mysidopsis bahia (opossum shrimp)): 0,9893 mg/l Exposure time: 96 h Test Type: static test

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Analytical monitoring: yes

Method: Other

GLP: yes

Remarks: salt water

NOEC (Mysidopsis bahia (opossum shrimp)): 0,25 mg/l

Exposure time: 96 h

Test Type: static test

Analytical monitoring: yes

Method: Other

GLP: yes

Remarks: salt water

Toxicity to algae:

EC50 (Selenastrum capricornutum (green algae)):

0,155 mg/l

End point: Growth rate

Exposure time: 72 h

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

NOEC (Selenastrum capricornutum (green algae)):

0,055 mg/l

End point: Growth rate

Exposure time: 72 h

Analytical monitoring: yes

Method: OECD Test Guideline 201

GLP: yes

Toxicity to microorganisms:

EC50 (activated sludge of a predominantly
domestic sewage): 23 mg/l

End point: Bacteria toxicity (respiration inhibition)

Exposure time: 3 h

Test Type: aquatic

Analytical monitoring: no

Method: OECD Test Guideline 209

GLP: yes

Remarks: The details of the toxic effect relate to the
nominal concentration.

EC50 : > 811,5 mg/kg Trockengewicht mg/kg
dry weight (d.w.)

Exposure time: 28 d

Test Type: Soil

Analytical monitoring: yes

Method: OECD 216

GLP: yes

Remarks: The details of the toxic effect relate to the
nominal concentration.

NOEC : 263,7 mg/kg Trockengewicht mg/kg
dry weight (d.w.)

Exposure time: 28 d

Test Type: Soil

Analytical monitoring: yes

Method: OECD 216

GLP: yes

Remarks: The details of the toxic effect relate to the
nominal concentration.

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Toxicity to fish (Chronic toxicity):	NOEC: 0,21 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout) Analytical monitoring: yes Method: OECD Test Guideline 215 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC: 1,2 mg/l Exposure time: 21 d End point: Reproduction rate Species: Daphnia magna (Water flea) Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes
	NOEC: 1,9 mg/l Exposure time: 21 d End point: Reproduction rate Species: Daphnia magna (Water flea) Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes
Toxicity to soil dwelling organisms:	Test Type: artificial soil C50: > 410,6 mg/kg Exposure time: 14 d End point: mortality Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
	Test Type: artificial soil NOEC: 234,5 mg/kg Exposure time: 14 d End point: mortality Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
Plant toxicity:	EC50: 340 mg/kg Exposure time: 20 d End point: Growth Species: Phaseolus vulgaris Analytical monitoring: yes Method: OECD Guide-line 208 GLP: yes Remarks: The details of the toxic effect relate to the nominal concentration.
	NOEC: 90 mg/kg Exposure time: 20 d End point: Growth Species: Phaseolus vulgaris Analytical monitoring: yes Method: OECD Guide-line 208 GLP: yes

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Remarks: The details of the toxic effect relate to the nominal concentration.

EC50: 300 mg/kg
Exposure time: 19 d
End point: Growth
Species: Triticum aestivum (wheat)
Analytical monitoring: yes
Method: OECD Guide-line 208
GLP: yes

Remarks: The details of the toxic effect relate to the nominal concentration.

NOEC: 51 mg/kg
Exposure time: 19 d
End point: Growth
Species: Triticum aestivum (wheat)
Analytical monitoring: yes
Method: OECD Guide-line 208
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.

Sediment toxicity: not available

Informations related to the component 2-Methylisothiazolin-3-one:

Toxicity to fish: LC50 (Danio rerio (zebra fish)): > 150 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 0,87 mg/l
Exposure time: 48 h

Toxicity to algae: IC50 (Pseudokirchneriella subcapitata (green algae)): 0,157 mg/l
Exposure time: 72 h

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,0104 mg/l
Exposure time: 96 h

M-Factor (Acute aquatic toxicity): 10

Toxicity to microorganisms: EC50 (Bacteria): 31,7 mg/l
Exposure time: 3 h

Toxicity to fish (Chronic toxicity): no data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): no data available

Toxicity to soil dwelling organisms: Not applicable

Plant toxicity: Not applicable

Sediment toxicity: Not applicable

Toxicity to terrestrial organisms: Not applicable

12.2. Persistence and degradability

Information related to the product itself:

Biodegradability: no data available

Information related to the component 1,2-Benzisothiazol-3(2H)-one:

Biodegradability: Test Type: aerobic
Inoculum: activated sludge
Concentration: 1 mg/l
Result: Partially biodegradable.
Exposure time: 63 d

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Physico-chemical removability:	Method: OECD Test Guideline 301C
Stability in water:	GLP: yes
	Biodegradable
	Test Type: abiotic
	Degradation half life: 219 d
	pH: 4Hydrolysis: at 50 °C
	Method: OECD Test Guideline 111
	GLP: yes
	Test Type: abiotic
	Degradation half life: > 200 d
	pH: 7Hydrolysis: at 50 °C
	Method: OECD Test Guideline 111
	GLP: yes
	Test Type: abiotic
	Degradation half life: 145 d
	pH: 9Hydrolysis: at 50 °C
	Method: OECD Test Guideline 111
	GLP: yes
Photodegradation:	Test Type: water
	Light source: Xenon lamp
	Light spectrum: 290 - 400 nm
	Rate constant: < 1,5 %
	GLP: yes
	Test Type: air
	Method: calculated
	GLP: no
	Decomposes rapidly in contact with light.

Informations related to the component 2-Methylisothiazolin-3-one:

Biodegradability:	Test Type: aerobic
	Result: Not rapidly biodegradable

12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation:	no data available
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Information related to the component 1,2-Benzisothiazol-3(2H)-one:

Bioaccumulation:	Species: Lepomis macrochirus (Bluegill sunfish)
	Exposure time: 56 d
	Concentration: 0,1 mg/l
	Bioconcentration factor (BCF): 6,62
	Method: OECD Test Guideline 305
	GLP: no
	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Informations related to the component 2-Methylisothiazolin-3-one:

Bioaccumulation:	Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.
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12.4. Mobility in soil

Information related to the product itself:

Behaviour in environmental

compartments:

no data available

Information related to the component 1,2-Benzisothiazol-3(2H)-one:

Distribution among environmental

compartments:

Adsorption/Soil

Medium: water – soil

Koc: 235 – 566

Method: Other

Informations related to the component 2-Methylisothiazolin-3-one:

Distribution among environmental

compartments:

no data available

12.5. Results of PBT and vPvB assessment

Information related to the product itself:

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.

Information related to the component 1,2-Benzisothiazol-3(2H)-one:

Assessment:

The substance is not identified as a PBT or as a vPvB substance.

Informations related to the component 2-Methylisothiazolin-3-one:

Assessment:

Remarks: no data available

12.6. Other adverse effects

Information related to the product itself:

Environmental fate and pathways:

no data available

Additional ecotoxicological remarks:

no data available

Information related to the component 1,2-Benzisothiazol-3(2H)-one:

Environmental fate and pathways:

no data available

Additional ecological information:

Do not allow to enter ground water, waterways or waste water.

Informations related to the component 2-Methylisothiazolin-3-one:

Environmental fate and pathways:

no data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product:

Dispose of in accordance with the European Directives on waste and hazardous waste.

Uncleaned packaging:

This material and its container must be disposed of in a safe way.

SECTION 14: TRANSPORT INFORMATION

14.1. to 14.5.

ADR:

not restricted

ADN:

not restricted

RID:

not restricted

IATA:

not restricted

IMDG:

not restricted

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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 transport as bulk according IBC-Code.

SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No 649/2012 of the

European Parliament and the Council
concerning the export and import of
dangerous chemicals:

Not applicable

REACH - Candidate List of Substances of

Very High Concern for Authorisation (Article 59):

Not applicable

Regulation (EC) No 1005/2009 on substances that
deplete the ozone layer:

Not applicable

Regulation (EC) No 850/2004 on persistent
organic pollutants:

Not applicable

Other regulations:

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2. Chemical safety assessment

No Chemical Safety Assessment (CSA) is yet available for the substance, or for the component substances, contained in this product.

SECTION 16: OTHER INFORMATION

Observe the legal requirements nationally and locally.

List of the text of the hazard statements mentioned section 3 (H-phrases):

H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.
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.
H412	Harmful to aquatic life with long lasting effects.

Change compared to the previous version:

Change in the composition

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
bw	Body weight
CLP	Classification Labelling Packaging Regulation Regulation (EC) No 1272/2008
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DIN	Standard of the German Institute for Standardisation

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DMEL	Derived Minimal Effect Level (genotoxic substances)
DNEL	Derived No Effect Level
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EC-Number	European Community number
ECx	Concentration associated with x% response
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
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
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
n.o.s.	Not Otherwise Specified
NO(A)EC	No Observed (Adverse) Effect Concentration
NO(A)EL	No Observed (Adverse) Effect Level
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
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
(Q)SAR	(Quantitative) Structure Activity Relationship
REACH	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 Goods 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

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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").

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