



## Safety Data Sheet

according to REACH Regulation

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture CLP

##### Regulation

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### CLP Regulation Hazard components for labelling

2-methylisothiazol-3(2H)-one

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

Signal word: Warning



##### Pictograms:

##### Hazard statements

May cause an allergic skin reaction.

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#### Precautionary statements

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

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

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

IF ON SKIN: Wash with plenty of Water and soap.

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

#### Special labelling of certain mixtures

1 - < 5 % of the mixture consists of ingredient(s) of unknown acute toxicity (inhalation). Contains

1 - < 5 % of components with unknown hazards to the aquatic environment.

#### 2.3. Other hazards

No data available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures Chemical characterization

Water-based ink with pigments, binders, humiding agents, preservatives and surface active agents.

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (CLP Regulation)			
112-02-7	Cetyltrimethylammoniumchloride			< 0.1 %
	203-928-6		01-2119970558-23	
	Acute Tox. 4, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H302 H314 H318 H400 H410			

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52-51-7	bronopol (INN); 2-bromo-2-nitropropane-1,3-diol			< 0.1 %
	200-143-0	603-085-00-8	01-2119980938-15	
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Acute 1; H312 H302 H315 H318 H335 H400			
2682-20-4	2-methylisothiazol-3(2H)-one			< 0.1 %
	220-239-6	613-326-00-9	01-2120764690-50	
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one			< 0.1 %
	220-120-9	613-088-00-6	01-2120761540-60	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H302 H315 H318 H317 H400			

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

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
112-02-7	203-928-6	Cetyltrimethylammoniumchloride	< 0.1 %
		oral: ATE = 500 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
52-51-7	200-143-0	bronopol (INN); 2-bromo-2-nitropropane-1,3-diol	< 0.1 %
		dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg Aquatic Acute 1; H400: M=10	
2682-20-4	220-239-6	2-methylisothiazol-3(2H)-one	< 0.1 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: ATE = 300 mg/kg; oral: ATE = 100 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100 Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	< 0.1 %
		oral: ATE = 500 mg/kg Skin Sens. 1; H317: >= 0,05 - 100	

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove contaminated clothing immediately and dispose off safely.

If victim is at risk of losing consciousness, position and transport on their side. Turn a vomiting person to the side.

##### After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

##### After contact with skin

Wash immediately with soap and plenty of water.

Use appropriate skin protective cream afterwards.

In case of prolonged skin irritation consult a physician.

##### After contact with eyes

Rinse with eyelid held open for several minutes with running water. Medical treatment necessary.

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### After ingestion

Drink large amounts of water and fresh air.

**4.2. Most important symptoms and effects, both acute and delayed** No data available. **4.3. Indication of any immediate medical attention and special treatment needed** No data available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

If packaging or plastic boxes are burning:  
Carbon dioxide (CO<sub>2</sub>). Extinguishing powder. Water spray. large fire: Water spray.

#### Unsuitable extinguishing media

For this substance / preparation no extinguishing agent restriction exist.

**5.2. Special hazards arising from the substance or mixture** The product itself does not burn.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

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#### 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

##### General advice

Provide adequate ventilation. Avoid contact with skin, eyes and clothes.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

##### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Information for safe handling, see section 7.

Information for personal protective equipment, see section 8. Information for disposal, see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Keep container tightly closed.

Handle and open container with care. Secure an adequate ventilation.

##### Advice on protection against fire and explosion

No special measures are necessary. **Advice on**

##### general occupational hygiene

The chemicals in dealing with the usual precautions must be observed. Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

##### Further information on handling

No special measures are necessary.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed.

Ink: Protect from freezing.

Recommended storage temperature: 5 - 35 °C

##### Hints on joint storage

Do not mix with acids.

Do not mix with Alkali.

##### Further information on storage conditions

Keep away from heat.

Protect from freezing.

#### 7.3. Specific end use(s)

No data available.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
57-55-6	Propylenglykol			
	Worker DNEL, long-term	inhalation	systemic	168 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	10 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	systemic	50 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	10 mg/m <sup>3</sup>
2682-20-4	2-methylisothiazol-3(2H)-one			
	Worker DNEL, long-term	inhalation	local	0,021 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	0,043 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	0,021 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	0,043 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	0,027 mg/kg bw/day
	Consumer DNEL, acute	oral	systemic	0,053 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/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	0,966 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	1,2 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	0,345 mg/kg bw/day

#### PNEC values

CAS No	Substance	Environmental compartment	Value
57-55-6	Propylenglykol		
	Freshwater		260 mg/l

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Marine water	26 mg/l
Marine water (intermittent releases)	183 mg/l
Freshwater sediment	572 mg/kg
Marine sediment	57,2 mg/kg
Micro-organisms in sewage treatment plants (STP)	20000 mg/l
Soil	
112-02-7	Cetyltrimethylammoniumchloride
Freshwater	0,00042 mg/l
Freshwater (intermittent releases)	0,00012 mg/l
Marine water	0,000042 mg/l
Freshwater sediment	68 mg/kg
Marine sediment	6,8 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,4 mg/l
Soil	0,4 mg/kg
2682-20-4	2-methylisothiazol-3(2H)-one
Freshwater	0,00339 mg/l
Freshwater (intermittent releases)	0,00339 mg/l
Marine water	0,00339 mg/l
Micro-organisms in sewage treatment plants (STP)	0,23 mg/l
Soil	0,0471 mg/kg
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one
Freshwater	0,00403 mg/l
Freshwater (intermittent releases)	0,0011 mg/l
Marine water	0,000403 mg/l
Freshwater sediment	0,0499 mg/l
Marine sediment	0,00499 mg/kg
Micro-organisms in sewage treatment plants (STP)	1,03 mg/l
Soil	3 mg/kg

#### Additional advice on limit values

Refer to chapter 7. No further action is necessary.

#### 8.2. Exposure controls

##### Individual protection measures, such as personal protective equipment

**Eyeface protection** Safety glasses.

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**Hand protection** Wear suitable gloves.

**Respiratory protection**

For normal use not necessary.

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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	variable
Odour:	slightly
Melting point/freezing point:	ca. 0 °C
Boiling point or initial boiling point and boiling range: Flammability:	100 °C
Flash point:	No data available. ca. 180 °C
Auto-ignition temperature:	429 °C
Decomposition temperature:	No data available.
pH-Value:	8,8
Viscosity / kinematic:	No data available.
Water solubility:	soluble
Solubility in other solvents	
Miscible with: Acetone , Ethanol	
Partition coefficient n-octanol/water:	No data available.
Vapour pressure:	0,18 hPa
(at 20 °C)	
Vapour pressure:	No data available.
Density (at 20 °C):	1 g/cm <sup>3</sup>
Bulk density:	No data available.
Relative vapour density:	No data available.
Particle characteristics:	not applicable

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties not

Explosive.

Self-ignition temperature Solid:

No data available.

Gas:

No data available.

Oxidizing properties Flammability:

&gt; 300 °C

**Other safety characteristics** Evaporation

rate:

No data available.

Solvent separation test:

No data available.

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Solvent content:	<20%
Solid content:	<10%
Sublimation point:	No data available.
Softening point:	No data available.
Pour point:	No data available. No data available.
Viscosity / dynamic: (at 20 °C)	4,7 mPa·s
Flow time:	No data available.

**Further Information** Miscible with: Water.

**SECTION 10: Stability and reactivity**

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**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

Not proof against strong acids and bases.

Not proof against oxidizing and reducing agents.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid** Keep

away from heat. Protect from freezing.

**10.5. Incompatible**

**materials** Heavy acid.

strong alkalis strong

oxidizers

Reducing agents, strong.

**10.6. Hazardous decomposition products**

None known during conventional usage.

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in CLP Regulation**

**Acute toxicity**

LD50: > 4000 mg/kg (Acute toxicity, oral, Rat calculated)

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-02-7	Cetyltrimethylammonium chloride				
	oral	ATE 500 mg/kg			
52-51-7	bronopol (INN); 2-bromo-2-nitropropane-1,3-diol				
	oral	ATE 500 mg/kg			

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	dermal	ATE mg/kg 1100			
2682-20-4	2-methylisothiazol-3(2H)-one				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			
2634-33-5	1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one				
	oral	ATE 500 mg/kg			

**Irritation and corrosivity**

Irritant effect on the eye: Slight irritation possible  
Irritant effect on the skin: none known

**11.2. Information on other hazards**

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**Other information**

No further relevant information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

No data available.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
112-02-7	Cetyltrimethylammoniumchloride					
	Acute fish toxicity	LC50 0,1 mg/l	96 h		Gestis	
	Acute crustacea toxicity	EC50 0,1 mg/l	48 h		Gestis	

**12.2. Persistence and degradability** No

data available.

**12.3. Bioaccumulative**

**potential** No data available.

**12.4. Mobility in soil** No data

available.

**12.5. Results of PBT and vPvB assessment** The substances in the mixture do not meet the

PBT/vPvB criteria according to REACH. No data available.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects** No

data available.

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### Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Waste disposal according to official state regulations and local regulations.

German Waste Catalogue - Waste code: 080103

Disposal identification: Water-based colours Water-based inks

#### List of Wastes Code - residues/unused products

080116 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

#### List of Wastes Code - used product

080116 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

#### List of Wastes Code - contaminated packaging

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080116 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; aqueous sludges containing paint or varnish other than those mentioned in 08 01 15

#### 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 or ID 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 or ID 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 or ID 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 or ID number:** No dangerous good in sense of this transport regulation.

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**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 data available.

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## 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  
75

2010/75/EU (VOC): <20%

2004/42/EC (VOC): <20%

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III) (SEVESO III):

#### National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

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### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### Abbreviations and acronyms

EC: European Community

CAS: Chemical Abstracts

TRGS: Technische Regeln für Gefahrstoffe

LD: letal Dose

DIN: Deutsches Institut für Normung

VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe

A.W.: Anton Wolfgang

HZVA: Production, Blending, Sale and Application. Abbreviation of the European waste register. VOC:

Volatile Organic Compounds

EN: Europäische Norm

GHS: Globally Harmonized System

### Classification for mixtures and used evaluation method according to 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.

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Toxic in contact with skin.

Harmful in contact with skin.

Causes severe skin burns and eye damage.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Fatal if inhaled.

May cause respiratory irritation.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

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 for adhering to existing laws and regulations.

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