

Trade name: Hesse HYDRO Chamfer lacquer, silk matt PEX HB 65965-FT

Version: 15 / WORLD

Revision: 22.10.2025

Replaces Version: 14 / WORLD

Print date: 07.11.25

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

### 1.1. Product identifier

Hesse HYDRO Chamfer lacquer, silk matt PEX HB 65965-FT

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

#### Use of the substance/preparation

Surface treatment of wood and other materials

#### Identified Uses

	REACHSET 1003
SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix
PROCh01	Other processing without aerosol formation

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Hesse GmbH & Co. KG  
Warendorfer Strasse 21  
59075 Hamm (Germany)  
Telephone no. +49 (0) 2381 963-00  
Fax no. +49 (0) 2381 963-849  
E-mail address ps@hesse-lignal.de

### 1.4. Emergency telephone number

Germany: +49 (0) 2381 788-612

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification (Regulation (EC) No. 1272/2008)

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

### 2.2. Label elements

#### Labelling according to regulation (EC) No 1272/2008

EUH208 Contains 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1), May produce an allergic reaction.

#### Supplemental information

EUH210 Safety data sheet available on request.

### 2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product

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does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## SECTION 3: Composition/information on ingredients

### Hazardous ingredients

#### propan-2-ol

CAS No.	67-63-0			
EINECS no.	200-661-7			
Registration no.	01-2119457558-25			
Concentration	>= 1	< 5	%	
Classification (Regulation (EC) No. 1272/2008)				
	Flam. Liq. 2	H225		
	Eye Irrit. 2	H319		
	STOT SE 3	H336		Nervous system

#### 2-butoxyethanol

CAS No.	111-76-2			
EINECS no.	203-905-0			
Registration no.	01-2119475108-36			
Concentration	>= 1	< 4	%	
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H302		Route of exposure: Oral exposure
	Eye Irrit. 2	H319		
	Skin Irrit. 2	H315		
	Acute Tox. 3	H331		

ATE	Oral exposure	1.200	mg/kg
cATpE	Inhalation exposure, Dust/Mist	0,5	mg/l

#### diacetone alcohol

CAS No.	123-42-2			
EINECS no.	204-626-7			
Registration no.	01-2119473975-21			
Concentration	>= 0,1	< 1	%	
Classification (Regulation (EC) No. 1272/2008)				
	STOT SE 3	H335		Respiratory tract
	Eye Irrit. 2	H319		
	Repr. 2	H361d		

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	10 %
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#### 1,2-benzisothiazol-3(2H)-one

CAS No.	2634-33-5			
EINECS no.	220-120-9			
Registration no.	01-2120761540-60			
Concentration		< 0,036	%	
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H302		
	Skin Irrit. 2	H315		
	Eye Dam. 1	H318		
	Skin Sens. 1	H317		
	Aquatic Acute 1	H400		

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Aquatic Chronic 1 H410  
Acute Tox. 2 H330

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Sens. 1 H317  $\geq 0,036 \%$

**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)**

CAS No. 55965-84-9

Concentration  $< 0,001 \%$

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 2 H330  
Acute Tox. 2 H310  
Acute Tox. 3 H301  
Skin Corr. 1B H314  
Skin Sens. 1 H317  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410  
Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Corr. 1C H314  $\geq 0,6 \%$   
Skin Irrit. 2 H315  $\geq 0,06 \%$   
Eye Irrit. 2 H319  $\geq 0,06 \%$   
Skin Sens. 1 H317  $\geq 0,0015 \%$   
Eye Dam. 1 H318  $\geq 0,6 \%$   
Aquatic Chronic 1 H410  $M = 100$   
Aquatic Acute 1 H400  $M = 100$

**2-methyl-2H-isothiazol-3-one**

CAS No. 2682-20-4

EINECS no. 220-239-6

Registration no. 01-2120764690-50

Concentration  $< 0,0015 \%$

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3 H301  
Acute Tox. 2 H330  
  
Skin Corr. 1B H314  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410  
Skin Sens. 1A H317  
Acute Tox. 3 H311  
Eye Dam. 1 H318

Route of exposure: Inhalation  
exposure

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400  $M = 10$   
Skin Sens. 1A H317  $\geq 0,0015 \%$

## Further ingredients

**ethanol**

CAS No. 64-17-5

EINECS no. 200-578-6

Registration no. 01-2119457610-43

Concentration  $\geq 1 < 10 \%$

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Advice: [3]

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2

H225

**Note**

[3] Substance with occupational exposure limits

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove affected person from danger area, lay him down. In all cases of doubt, or when symptoms persist, seek medical attention. Get medical advice/attention if you feel unwell. First aider: Pay attention to self-protection!

#### After inhalation

When spray fog inhaled, seek medical aid.

#### After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners. Consult a doctor if skin irritation persists.

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. Take medical treatment.

#### After ingestion

Do not induce vomiting. Take medical treatment.

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

Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

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

#### Hints for the physician / treatment

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray/mist

#### Non suitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will produce dense black smoke. In a fire, hazardous decomposition products may be produced. Exposure to decomposition products may cause a health hazard.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

In case of combustion evolution of dangerous gases possible. Use self-contained breathing apparatus.

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### Other information

Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water. Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale vapours. Do not inhale gases. Do not inhale mist.

### 6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not allow to enter soil, waterways or waste water canal. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Do NOT use solvents or thinners. Send in suitable containers for recovery or disposal.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Keep container tightly closed and dry in a cool, well-ventilated place. Avoid contact with skin and eyes. Avoid inhalation of vapour and spray mist. Do not eat, drink or smoke when using this product. Use personal protective clothing. For personal protection see Section 8.

#### Advice on protection against fire and explosion

Fight fire with normal precautions from a reasonable distance.

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

#### Storage stability

Protect from frost.

#### Requirements for storage rooms and vessels

Keep only in the original container in a cool, well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Hints on storage assembly

Store away from oxidising agents, from strongly alkaline and strongly acid materials.

#### Storage classes

Storage class according to TRGS 510      10      Flammable liquids

#### Further information on storage conditions

Keep away from heat. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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## Other information

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## Derived No/Minimal Effect Levels (DNEL/DMEL)

### 2-butoxyethanol

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Acute effects	
Concentration	89	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	246	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	75	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	20	ppm
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	89	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	246	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1091	mg/m <sup>3</sup>

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Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	3,2	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	13,4	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	123	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Acute effects	
Concentration	44,5	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Acute effects	
Concentration	426	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	6,3	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	106,4	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	

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Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	38	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	59	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	49	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	26,7	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	135	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	147	mg/m <sup>3</sup>
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	89	mg/kg/d
<b>propan-2-ol</b>		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Chronic effects	
Concentration	888	mg/kg/d



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Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Chronic effects	
Concentration	500	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Chronic effects	
Concentration	89	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Chronic effects	
Concentration	26	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	319	mg/kg/d

#### **ethanol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	1900	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	343	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	960	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	



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Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Acute effects	
Concentration	960	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	206	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	114	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	87	mg/kg/d
<b>diacetone alcohol</b>		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	32,6	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (professional)	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	467	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	5,8	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Oral exposure	
Mode of action	Systemic effects	

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Concentration	1,67	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Consumer
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Duration of exposure	Long-term
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Route of exposure	Dermal exposure
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Mode of action	Systemic effects
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Concentration	167	mg/kg/d
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**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H  
-isothiazol-3- one [EC no. 220-239-6] (3:1)**

Type of value	Derived No Effect Level (DNEL)
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Reference group	Workers (industrial)
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Duration of exposure	Long-term
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Route of exposure	inhalative
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Mode of action	Local effects
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Concentration	0,02	mg/m <sup>3</sup>
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Consumer
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Duration of exposure	Long-term
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Route of exposure	oral
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Mode of action	Systemic effects
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Concentration	0,09	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Consumer
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Duration of exposure	Long-term
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Route of exposure	inhalative
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Mode of action	Local effects
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Concentration	0,02	mg/m <sup>3</sup>
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Consumer
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Duration of exposure	Short-term
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Route of exposure	inhalative
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Mode of action	Local effects
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Concentration	0,04	mg/m <sup>3</sup>
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Consumer
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Duration of exposure	Short-term
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Route of exposure	Oral exposure
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Mode of action	Systemic effects
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Concentration	0,11	mg/kg/d
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Type of value	Derived No Effect Level (DNEL)
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Reference group	Workers (industrial)
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Duration of exposure	Short-term
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Route of exposure	inhalative
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Mode of action	Local effects
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Concentration	0,04	mg/m <sup>3</sup>
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### 1,2-benzisothiazol-3(2H)-one

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	6,81	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,966	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1,2	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0,345	mg/kg

### 2-methyl-2H-isothiazol-3-one

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,021	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,043	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,021	mg/m³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

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Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,043	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,027	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Short term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,053	mg/m <sup>3</sup>

### **Predicted No Effect Concentration (PNEC)**

#### **2-butoxyethanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	8,8	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	0,88	mg/l

Type of value	PNEC	
Type	saltwater sediment	
Concentration	3,46	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	463	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	2,33	mg/kg

#### **propan-2-ol**

Type of value	PNEC	
Type	Freshwater	
Concentration	140,9	mg/l

Type of value	PNEC	
Type	Saltwater	
Concentration	140,9	mg/l

Type of value	PNEC	
Conditions	sporadic release	

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Concentration	140,9	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	552	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	552	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	28	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2251	mg/l

**ethanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,96	mg/l
Type of value	PNEC	
Type	marine water	
Concentration	0,79	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	2,75	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	580	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	3,6	mg/kg
Type of value	PNEC	
Type	saltwater sediment	
Concentration	2,9	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,63	mg/kg

**diacetone alcohol**

Type of value	PNEC	
Type	Freshwater	
Concentration	2	mg/l
Type of value	PNEC	

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Type	Saltwater	
Concentration	0,2	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	1	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	7,4	mg/kg/d
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,74	mg/kg/d
Type of value	PNEC	
Type	Soil	
Concentration	0,31	mg/kg/d

**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H  
-isothiazol-3- one [EC no. 220-239-6] (3:1)**

Type of value	PNEC	
Type	Marine	
Concentration	3,39	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0,23	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,027	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,027	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,01	mg/kg
Type of value	PNEC	
Type	Freshwater	
Concentration	3,39	µg/l

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

Type of value	PNEC	
Type	Freshwater	
Concentration	4,03	µg/l

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Type of value	PNEC	
Type	Saltwater	
Concentration	0,403	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1,03	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,0499	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,00499	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	3	mg/kg

#### **2-methyl-2H-isothiazol-3-one**

Type of value	PNEC	
Type	Freshwater	
Concentration	3,39	µg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	3,39	µg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	023	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,047	mg/kg

## **8.2. Exposure controls**

### **Exposure controls**

Users are advised to consider national Occupational Exposure Limits or other equivalent values. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

### **Respiratory protection**

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol. Recommended Filter type: Respiratory protection mask with combination filter A/P2

### **Hand protection**

Glove material  
Appropriate Material butyl-rubber



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Material thickness >= 0,5 mm

Breakthrough time >= 120 min

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

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.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

### Body protection

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Physical state** liquid  
**Colour** coloured  
**Odour** characteristic

**Melting point**  
Remarks not determined

**Freezing point**  
Remarks not determined

**Boiling point or initial boiling point and boiling range**  
Value 78 to 184 °C

**Flammability**  
not determined

**Upper and lower explosive limits**  
Remarks not determined

**Flash point**  
Value > 60 °C

**Auto-ignition temperature**  
Remarks not determined

**Decomposition temperature**  
Remarks not determined

**pH value**  
Value 8,7  
Concentration/H<sub>2</sub>O 100  
Remarks Not applicable

**Viscosity**  
Remarks not determined

**Solubility(ies)**  
Remarks not determined

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#### Partition coefficient n-octanol/water (log value)

Remarks not determined

#### Vapour pressure

Remarks not determined

#### Density and/or relative density

Value appr. 1,028 kg/l  
Temperature 20 °C

#### Relative vapour density

Remarks not determined

#### Particle characteristics

Remarks not determined

### 9.2. Other information

#### Odour threshold

Remarks not determined

#### Solubility in water

Remarks not determined

#### Efflux time

Value 25 to 35 s  
Temperature 20 °C  
Method DIN EN ISO 2431 - 4 mm

#### Explosive properties

evaluation not determined

#### Oxidising properties

Remarks not determined

#### Non-volatile content

Value appr. 39 %  
Method calculated value

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under recommended storage and handling conditions (see section 7).

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

### 10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

### 10.5. Incompatible materials

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

### 10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NOx), dense black smoke, No decomposition if

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used as prescribed.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		

#### Acute oral toxicity (Components)

##### 2-butoxyethanol

ATE	1200	mg/kg
-----	------	-------

##### 2-methyl-2H-isothiazol-3-one

Species	rat	
LD50	120	mg/kg
Method	EPA	
Source	1 (reliable without restriction)	

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

Species	rat	
LD50	450	mg/kg
Source	Annex VI Hazardous Substance	

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

ATE	53	mg/kg
-----	----	-------

#### Acute dermal toxicity

Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

#### Acute dermal toxicity (Components)

##### 2-methyl-2H-isothiazol-3-one

Species	rat	
LD50	242	mg/kg
Source	1 (reliable without restriction)	

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

ATE	50	mg/kg
Method	conversion	

#### Acute inhalational toxicity

ATE	>	20	mg/l
Administration/Form	Dust/Mist		
Method	calculated value (Regulation (EC) No. 1272/2008)		
Remarks	Based on available data, the classification criteria are not met.		

#### Acute inhalative toxicity (Components)

##### 2-butoxyethanol

ATE	3	mg/l
Duration of exposure	4	h
Administration/Form	Vapors	
Source	Annex VI Hazardous Substance	

##### 2-methyl-2H-isothiazol-3-one

Species	rat
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LC50	0,1	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Source	1 (reliable without restriction)	

**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)**

ATE	0,05	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Method	conversion value	
Remarks	Mist	

### Skin corrosion/irritation

Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

### Skin corrosion/irritation (Components)

#### 2-butoxyethanol

Species	rabbit
Duration of exposure	4 h
Observation Period	28 d
evaluation	Irritating to skin and mucous membranes
Method	EEC 84/449, B.4

#### 2-methyl-2H-isothiazol-3-one

evaluation	Causes burns.
------------	---------------

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

evaluation	Irritating to skin.
------------	---------------------

**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)**

Species	rabbit
evaluation	Severe skin irritation

### Serious eye damage/irritation

Method	Calculation method (Regulation (EC) No. 1272/2008)
Remarks	Based on available data, the classification criteria are not met.

### Serious eye damage/irritation (Components)

#### 2-butoxyethanol

Species	rabbit
Duration of exposure	24 h
Observation Period	21 d
evaluation	Eye irritation
Source	1 (reliable without restriction)

#### propan-2-ol

Species	rabbit
Observation Period	14 d
evaluation	Irritating to eyes.
Source	1 (reliable without restriction)

#### diacetone alcohol

Species	rabbit
evaluation	Irritating to eyes.
Source	2 (reliable with restrictions)

#### 2-methyl-2H-isothiazol-3-one

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evaluation Causes severe caustic burns to skin and eyes.

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

evaluation Irritating to eyes.

**Sensitization**

Method Calculation method (Regulation (EC) No. 1272/2008)

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

**Sensitization (Components)**

**2-methyl-2H-isothiazol-3-one**

evaluation May cause sensitization by skin contact.

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

Reference substance 1,2-benzisothiazol-3(2H)-one

evaluation May cause sensitization by skin contact.

**reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)**

Species guinea pig

evaluation Causes sensitisation on guinea-pigs.

**Mutagenicity**

Method Calculation method (Regulation (EC) No. 1272/2008)

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

**Reproductive toxicity**

Method Calculation method (Regulation (EC) No. 1272/2008)

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

**Reproduction toxicity (Components)**

**diacetone alcohol**

Species rat

evaluation Reproductive toxicity, Category 2

Method OECD 422

Remarks Suspected of damaging the unborn child.

Source 2 (reliable with restrictions)

**Carcinogenicity**

Method Calculation method (Regulation (EC) No. 1272/2008)

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

**Specific Target Organ Toxicity (STOT)**

**Single exposure**

Method Calculation method (Regulation (EC) No. 1272/2008)

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

**Repeated exposure**

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

**Specific Target Organ Toxicity (STOT) (Components)**

**propan-2-ol**

**Specific target organ toxicity - single exposure**

Organs: Nervous system

Remarks Possible narcotic effects (drowsiness, dizziness).

**diacetone alcohol**

**Specific target organ toxicity - single exposure**

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Remarks

Organs: Respiratory tract  
May cause respiratory irritation.

### Aspiration hazard

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

## 11.2. Information on other hazards

### Endocrine disrupting properties with respect to humans

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

### Other information

No toxicological data are available.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### General information

For this subsection there is no ecotoxicological data available on the product as such.

#### Fish toxicity (Components)

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

Species	Oncorhynchus mykiss (rainbow trout)	
LC50	2,18	mg/l
Duration of exposure	96	h

##### reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

Species	Oncorhynchus mykiss (rainbow trout)	
LC50	0,19	mg/l
Duration of exposure	96	h

#### Daphnia toxicity (Components)

##### 2-methyl-2H-isothiazol-3-one

Species	Daphnia magna (Water flea)	
NOEC	0,044	mg/l
Duration of exposure	21	d

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

Species	Daphnia magna (Water flea)	
EC50	2,94	mg/l
Duration of exposure	48	h

##### reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

Species	Daphnia magna (Water flea)	
EC50	0,16	mg/l
Duration of exposure	48	h

#### Algae toxicity (Components)

##### 2-methyl-2H-isothiazol-3-one

EC50	0,157	mg/l
Duration of exposure	96	h

##### reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

Species	Scenedesmus capricornutum (fresh water algae)
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EC50	0,018	mg/l
Duration of exposure	72	h

#### **Bacteria toxicity (Components)**

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

Species	activated sludge	
EC50	4,5	mg/l

### **12.2. Persistence and degradability**

#### **General information**

For this subsection there is no ecotoxicological data available on the product as such.

#### **Biodegradability (Components)**

##### **1,2-benzisothiazol-3(2H)-one**

evaluation Not readily biodegradable.

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3- one [EC no. 220-239-6] (3:1)

evaluation Not readily biodegradable.

### **12.3. Bioaccumulative potential**

#### **General information**

For this subsection there is no ecotoxicological data available on the product as such.

#### **Partition coefficient n-octanol/water (log value)**

Remarks not determined

#### **Octanol/water partition coefficient (log Pow) (Components)**

##### **2-methyl-2H-isothiazol-3-one**

log Pow	-0,486	
Temperature	20	°C

### **12.4. Mobility in soil**

#### **General information**

For this subsection there is no ecotoxicological data available on the product as such.

#### **Mobility in soil**

no data available

### **12.5. Results of PBT and vPvB assessment**

#### **General information**

For this subsection there is no ecotoxicological data available on the product as such.

#### **Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

### **12.6 Endocrine disrupting properties**

#### **Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

### **12.7. Other adverse effects**

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H302	Harmful if swallowed.
H310	Fatal in contact with skin.



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H311	Toxic 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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### **CLP categories listed in Chapter 3**

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Changes since the last version are highlighted in the margin (\*\*). This version replaces all previous versions.

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.

## **Annex to the extended Safety Data Sheet (eSDS)**

### **Short title of the exposure scenario**

ES018 - Industrial applications: rolling, dipping, pouring and other processing without aerosol formation (inside)

### **Use of the substance/preparation**

Surface treatment of wood and other materials

### **Use**

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
ERC4	Industrial use of processing aids in processes and products, not becoming part of

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ERC5	articles
PROCh01	Industrial use resulting in inclusion into or onto a matrix
PROCh02	Other processing without aerosol formation
PROC13	roller coating industrial
	Treatment of articles by dipping and pouring

## **Contributing exposure scenario controlling environmental exposure**

### **Use**

ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC5	Industrial use resulting in inclusion into or onto a matrix

### **Physical form**

liquid

### **Maximum amount used per time or activity**

Emission days per site: <= 300

### **Other relevant operational conditions**

Use: Room temperature  
Drying and through-curing takes place at ambient temperature or at higher temperatures.  
Curing takes place through UV light exposure (only with UV light curing systems ).  
Where possible recycling is preferred to disposal or incineration.  
Do not allow to enter soil, waterways or waste water canal.  
Dispose of rinse water in accordance with local and national regulations.

### **Waste water**

Do not discharge into the drains/surface waters/groundwater. Spray cabin waters are to be conducted after mechanical pretreatment into a wastewater treatment facility.

### **Exhaust air**

Keep container closed. Avoid release to the environment.

### **Soil**

Floors should be impervious, resistant to liquids and easy to clean.

### **Disposal recommendations for the product**

Where possible recycling is preferred to disposal or incineration.  
Do not allow to enter drains or waterways.

### **Disposal recommendations for packaging**

Completely emptied packagings can be given for recycling.

## **Contributing exposure scenario controlling worker exposure**

### **Use**

SU3	Industrial uses: Uses of substances as such or in preparations at industrial sites
PROCh01	Other processing without aerosol formation
PROCh02	roller coating industrial
PROC13	Treatment of articles by dipping and pouring

### **Physical form**

liquid

### **Maximum amount used per time or activity**

Duration of exposure	<=	8	h/d
Frequency of exposure	<=	220	d/a

### **Other relevant operational conditions**

Use: Room temperature

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Drying and through-curing takes place at ambient temperature or at higher temperatures.  
Curing takes place through UV light exposure (only with UV light curing systems ).  
Read attached instructions before use.

### **Product substance and product safety related measures**

Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide for sufficient ventilation. This can be achieved by local exhaust or general exhaust air collection. Wear a suitable respirator if the ventilation is not sufficient to keep the solvent vapour concentration below the occupational limit values.

### **Respiratory protection**

Avoid inhalation of vapour and spray mist. Use breathing apparatus if exposed to vapours/dust/aerosol.  
Recommended Filter type: Respiratory protection mask with combination filter A/P2

### **Hand protection**

Glove material  
Appropriate Material butyl-rubber  
Material thickness  $\geq$  0,5  
Breakthrough time  $\geq$  120

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

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.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

The breakthrough time must be greater than the end use time of the product.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

### **Body protection**

Wear suitable protective clothing. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

## **Exposure estimation and reference to its source**

### **Workers (industrial)**

SU	SU3
PROC	PROC7
Assessment method	inhalation, long-term - systemic
Exposure assessment	42 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,428571
Lead substance	2-butoxyethanol

### **Workers (industrial)**

PROC	PROC7
Assessment method	dermal, long-term - systemic
Exposure assessment	8,5714 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,068571
Lead substance	2-butoxyethanol

### **Workers (industrial)**

PROC	PROC10
Assessment method	inhalation, long-term - systemic

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Exposure assessment	55	mg/m <sup>3</sup>
Exposure assessment (method)	EASY TRA v3.5	
Risk characterisation ratio (RCR)	0,561224	
Lead substance	2-butoxyethanol	

**Workers (industrial)**

PROC	PROC10	
Assessment method	dermal, long-term - systemic	
Exposure assessment	5,4857	mg/kg/d
Exposure assessment (method)	ESIG GES tool	
Risk characterisation ratio (RCR)	0,043886	
Lead substance	2-butoxyethanol	

**Workers (industrial)**

PROC	PROC13	
Assessment method	inhalation, long-term - systemic	
Exposure assessment	49,2393	mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool	
Risk characterisation ratio (RCR)	0,502441	
Lead substance	2-butoxyethanol	

**Workers (industrial)**

PROC	PROC13	
Assessment method	dermal, long-term - systemic	
Exposure assessment	2,7429	mg/kg/d
Exposure assessment (method)	EASY TRA v3.5	
Risk characterisation ratio (RCR)	0,021943	
Lead substance	2-butoxyethanol	

## **Information on estimated exposure and downstream-user guidance**

### **Guidance for Downstream Users**

The downstream user can evaluate whether he operates within the conditions set in the exposure scenario on the basis of the information supplied. This evaluation can be conducted by an expert or using the risk assessment tools recommended by ECHA.