

Trade name: glimtrex SIGNUM 1-Pack Lacquer satin 103001

Version: 41 / DE

Revision: 09.02.2022

Replaces Version: 40 / DE

Print date: 12.04.22

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

glimtrex SIGNUM 1-Pack Lacquer satin 103001

### 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

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SU22	REACHSET 2003 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROC10	Roller application or brushing

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

#### Manufacturer

glimtrex GmbH  
Orkotten 68  
48291 Telgte  
Telephone no. +49 (0) 2504 88887-111  
Fax no. +49 (0) 2504 88887-112  
E-mail address info@glimtrex.de

### 1.4. Emergency telephone number

Germany: +49 (0) 30 30686700

## 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 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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-3- one [EC no. 220-239-6] (3:1), 2,4,7,9-tetramethyldec-5-yne-4,7-diol, May produce an allergic reaction.

#### Supplemental information

EUH210 Safety data sheet available on request.

### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB) (if not listed in Section 3).

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### 3. Composition/information on ingredients

#### Hazardous ingredients

##### 2-(2-butoxyethoxy)ethanol

CAS No.	112-34-5			
EINECS no.	203-961-6			
Registration no.	01-2119475104-44			
Concentration	>= 1	<	5	%
Classification (Regulation (EC) No. 1272/2008)	Eye Irrit. 2		H319	

##### 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
	Acute Tox. 4		H312	Route of exposure: Dermal exposure
	Acute Tox. 4		H332	Route of exposure: Inhalation exposure
	Eye Irrit. 2		H319	
	Skin Irrit. 2		H315	

##### 2,4,7,9-tetramethyldec-5-yne-4,7-diol

CAS No.	126-86-3			
EINECS no.	204-809-1			
Registration no.	01-2119954390-39			
Concentration	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)	Eye Dam. 1		H318	
	Skin Sens. 1B		H317	
	Aquatic Chronic 3		H412	

##### 2-dimethylaminoethanol

CAS No.	108-01-0			
EINECS no.	203-542-8			
Registration no.	01-2119492298-24			
Concentration	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)	Flam. Liq. 3		H226	
	Acute Tox. 3		H331	Route of exposure: Inhalation exposure
	Acute Tox. 4		H312	Route of exposure: Dermal exposure
	Acute Tox. 4		H302	Route of exposure: Oral exposure
	Skin Corr. 1B		H314	
	STOT SE 3		H335	Respiratory tract

Concentration limits (Regulation (EC) No. 1272/2008)  
 STOT SE 3 H335 >= 5

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

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CAS No.	2634-33-5			
EINECS no.	220-120-9			
Concentration		<	0,05	%
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	
	Aquatic Chronic 2		H411	

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

Skin Sens. 1 H317  $\geq$  0,05 %

**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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-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

1

Aquatic Acute 1 H400 M = 100

### Further ingredients

#### 2-(2-ethoxyethoxy)ethanol

CAS No.	111-90-0			
EINECS no.	203-919-7			
Registration no.	01-2119475105-42			
Concentration	$\geq$ 1	<	10	%
Advice: [3]				

### Note

[3] Substance with occupational exposure limits

## 4. First aid measures

### 4.1. Description of first aid measures

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### 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.

## 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.

#### 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.

## 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

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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.

## 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

#### 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.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### 2-butoxyethanol

List	TRGS 900			
Value	49	mg/m <sup>3</sup>	10	ppm(V)
Maximum limit value: 2(l); Skin resorption / sensibilisation: H: Y; Status: 07/2021				

##### 2-butoxyethanol

List	Directive 2017/164 EG			
Value	98	mg/m <sup>3</sup>	20	ppm(V)
Short term exposure limit	246	mg/m <sup>3</sup>	50	ppm(V)
Skin resorption / sensibilisation: H; Status: 12/2009				

##### 2-(2-butoxyethoxy)ethanol

List	TRGS 900			
Value	67	mg/m <sup>3</sup>	10	ppm(V)
Maximum limit value: 1,5(l); Pregnancy group: Y; Status: 07/2021				

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**2-(2-butoxyethoxy)ethanol**

List	Directive 2017/164 EG			
Value	67,5	mg/m <sup>3</sup>	10	ppm(V)
Short term exposure limit	101,2	mg/m <sup>3</sup>	15	ppm(V)
Status:	12/2009			

**2-(2-ethoxyethoxy)ethanol**

List	TRGS 900			
Value	35	mg/m <sup>3</sup>	6	ppm(V)
Maximum limit value:	2(l); Pregnancy group: Y; Status: 07/2021			

**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			

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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>
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

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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  
 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



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Mode of action	Systemic effects	
Concentration	89	mg/kg/d
<b>2-(2-ethoxyethoxy)ethanol</b>		
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	50	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	37	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	inhalative	
Mode of action	Local effects	
Concentration	18	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	Systemic effects	
Concentration	25	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	18,3	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	25	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	Local effects	
Concentration	9	mg/m <sup>3</sup>

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**2-(2-butoxyethoxy)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	14	ppm
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	20	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	10	ppm
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	ppm
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	7,5	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	Systemic effects	
Concentration	10	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	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	

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Route of exposure	Oral exposure	
Mode of action	Systemic effects	
Concentration	1,3	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	Local effects	
Concentration	5	mg/m <sup>3</sup>

**2-dimethylaminoethanol**

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	1,04	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	Systemic effects	
Concentration	7,4	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	2,2	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	
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Type	Soil		
Concentration		2,33	mg/kg

**2-(2-ethoxyethoxy)ethanol**

Type of value	PNEC		
Type	Freshwater		
Concentration		0,74	mg/l

Type of value	PNEC		
Type	marine water		
Concentration		0,074	mg/l

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration		500	mg/l

Type of value	PNEC		
Type	Fresh water sediment		
Concentration		2,74	mg/kg

Type of value	PNEC		
Type	saltwater sediment		
Concentration		274	mg/kg

Type of value	PNEC		
Type	Soil		
Concentration		0,15	mg/kg

**2-(2-butoxyethoxy)ethanol**

Type of value	PNEC		
Type	Freshwater		
Concentration		1	mg/l

Type of value	PNEC		
Type	marine water		
Concentration		0,1	mg/l

Type of value	PNEC		
Type	Fresh water sediment		
Concentration		4	mg/kg

Type of value	PNEC		
Type	saltwater sediment		
Concentration		0,4	mg/kg

Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration		200	mg/l

Type of value	PNEC		
Type	Soil		
Concentration		0,4	mg/l

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**2-dimethylaminoethanol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,0661	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,00661	mg/l
Type of value	PNEC	
Conditions	sporadic release	
Concentration	0,0661	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,0529	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,0177	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	10	mg/l

**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**

Protective gloves complying with EN 374.

Glove material

Appropriate Material butyl-rubber

Material thickness  $\geq$  0,5 mm

Breakthrough time  $\geq$  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.

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**Eye protection**

Wear eye glasses with side protection according to EN 166.

**Body protection**

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

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

<b>Form</b>	liquid
<b>Colour</b>	white
<b>Odour</b>	characteristic
<b>Odour threshold</b>	
Remarks	not determined
<b>pH value</b>	
Value	8
Concentration/H <sub>2</sub> O	100
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Remarks	not determined
<b>Flash point</b>	
Value	> 60 °C
<b>Flammability (solid, gas)</b>	
Remarks	not determined
<b>Upper/lower flammability or explosive limits</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Vapour density</b>	
Remarks	not determined
<b>Density</b>	
Value	appr. 1,045 kg/l
Temperature	20 °C
<b>Solubility in water</b>	
Remarks	not determined
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient: n-octanol/water</b>	
Remarks	not determined
<b>Ignition temperature</b>	
Remarks	not determined

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**Decomposition temperature**

Remarks not determined

**Viscosity**

Remarks not determined

**Efflux time**

Value	40	to	60	s
Temperature	20	°C		
Method	DIN EN ISO 2431 - 4 mm			

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**9.2. Other information****Non-volatile content**

Value	35,2	%
Method	calculated value	

**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 (NO<sub>x</sub>), dense black smoke, No decomposition if used as prescribed.**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		
Remarks	Based on available data, the classification criteria are not met.		

**Acute oral toxicity (Components)****2-butoxyethanol**

ATE	1200	mg/kg
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**2-dimethylaminoethanol**

Species	rat	
LD50	1183	mg/kg
Method	OECD 401	

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

ATE	100	mg/kg
Method	conversion value	

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

Species	rat	
LD50	1193	mg/kg

**Acute dermal toxicity**

ATE	> 10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

**Acute dermal toxicity (Components)****2-butoxyethanol**

Species	guinea pig	
LD50	435	mg/kg
Source	1 (reliable without restriction)	

**2-dimethylaminoethanol**

Species	rabbit	
LD50	1219	mg/kg

**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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-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**

Species	rat	
LC50	2,56	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Source	1 (reliable without restriction)	

**2-dimethylaminoethanol**

Species	rat	
LC50	0,5	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Method	conversion value	

**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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one**



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**[EC no. 247-500-7] and 2-methyl-4-isothiazolin-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-dimethylaminoethanol**

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

Species	rabbit
evaluation	Severe skin irritation

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

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

**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)	

**2-(2-butoxyethoxy)ethanol**

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

**2-dimethylaminoethanol****2,4,7,9-tetramethyldec-5-yne-4,7-diol****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)**

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

Species guinea pig  
evaluation Causes sensitisation on guinea-pigs.

**2,4,7,9-tetramethyldec-5-yne-4,7-diol**

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.

**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.

**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)****2-dimethylaminoethanol****Specific target organ toxicity - single exposure**

evaluation May cause respiratory irritation.  
Route of exposure inhalative  
Organs: Respiratory tract

**Aspiration hazard**

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

**Other information**

No toxicological data are available.

**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)****2-(2-ethoxyethoxy)ethanol**

Species	Spotted catfish		
LC50	6010		mg/l
Duration of exposure	96	h	

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

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

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

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

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

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

**2,4,7,9-tetramethyldec-5-yne-4,7-diol**

Species	Daphnia magna (Water flea)		
EC50	91		mg/l
Duration of exposure	48	h	

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

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

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

Species	Scenedesmus capricornutum (fresh water algae)		
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); reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-4-isothiazolin-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)**

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

evaluation	Not readily biodegradable.		
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**1,2-benzisothiazol-3(2H)-one**

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evaluation 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

Remarks not determined

### 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.

### 12.6. Other adverse effects

#### General information

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

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations for the product

EWC waste code	080111 - waste paint and varnish containing organic solvents or other dangerous substances
EWC waste code	200127 - paint, inks, adhesives and resins containing dangerous substances

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

#### modified product

EWC waste code	080115 - aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances
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#### Dried residues

EWC waste code	080112 - waste lacquers and waste paint except those falling under 080111
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#### Disposal recommendations for packaging

EWC waste code	150110 - packaging containing residues of or contaminated by dangerous substances
----------------	---

Germany: KBS system for sheet covering  
Completely emptied packagings can be given for recycling.

## 14. Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of sea and air transport regulations.	Not a dangerous substance as defined in the above regulations.

## 15. Regulatory information

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

#### Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 1

Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

#### VOC

VOC (EU) 7,5 % 79 g/l

## 16. Other information

### Hazard statements listed in Chapter 3

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H312	Harmful 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.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful 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
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3

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Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

### Abbreviations

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 IMDG - International Maritime Code for Dangerous Goods  
 IATA - International Air Transport Association  
 IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)  
 ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)  
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS - European Inventory of Existing Commercial Chemical Substances  
 CAS - Chemical Abstracts Service (division of the American Chemical Society)  
 GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 LOAEL - Lowest Observed Adverse Effect Level  
 LOEL - Lowest Observed Effect Level  
 NOAEL - No Observed Adverse Effect Level  
 NOEC - No Observed Effect Concentration  
 NOEL - No Observed Effect Level  
 OECD - Organisation for Economic Cooperation and Development  
 VOC - Volatile Organic Compounds

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

ES020 - Professional uses: roller application or brushing, dipping and pouring and other processing without aerosol formation (inside)

### Use of the substance/preparation

Surface treatment of wood and other materials

### Use

SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8c	Wide dispersive indoor use resulting in inclusion into or onto a matrix
PROCh01	Other processing without aerosol formation
PROC13	Treatment of articles by dipping and pouring

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PROC10

Roller application or brushing

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

### **Use**

ERC8a Wide dispersive indoor use of processing aids in open systems  
 ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

### **Physical form**

liquid

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

Emission days per site: &lt;= 250

### **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.

### **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**

EWC waste code 080111 - waste paint and varnish containing organic solvents  
 or other dangerous substances  
 200127 - paint, inks, adhesives and resins containing  
 dangerous substances

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

### **modified product**

EWC waste code 080115 - aqueous sludges containing paint or varnish  
 containing organic solvents or other dangerous substances

### **Dried residues**

EWC waste code 080112 - waste lacquers and waste paint except those falling  
 under 080111

### **Disposal recommendations for packaging**

EWC waste code 150110 - packaging containing residues of or contaminated  
 by dangerous substances

Germany: KBS system for sheet covering  
 Completely emptied packagings can be given for recycling.

## **Contributing exposure scenario controlling worker exposure (professional)**

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

Substance number:CES040

### **Use**

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SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
 PROCh01 Other processing without aerosol formation  
 PROC10 Roller application or brushing  
 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  
 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**

Protective gloves complying with EN 374.

Glove material

Appropriate Material butyl-rubber

Material thickness >= 0,5

Breakthrough time >= 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.

**Eye protection**

Wear eye glasses with side protection according to EN 166.

**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 (professional)**

SU	SU22
PROC	PROC10



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Assessment method	inhalation, long-term - systemic Indoor use
Exposure assessment	36,9294 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,376831
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic Indoor use
Exposure assessment	5,4857 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,043887
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - systemic Outdoor use
Exposure assessment	51,7012 ppm
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,527563
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic Outdoor use
Exposure assessment	3,2914 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,026331
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic Indoor use
Exposure assessment	62 mg/m <sup>3</sup>
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,632653
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic Indoor use
Exposure assessment	12,8571 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,632653
Lead substance	2-butoxyethanol

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**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	10 ppm
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,5
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
	Outdoor use
Exposure assessment	21 mg/kg/d
Exposure assessment (method)	ECETOC TRA
Risk characterisation ratio (RCR)	0,286
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Indoor use
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 (professional)**

SU	SU22
PROC	PROC13
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	2,7429 mg/kg/d
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,021943
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Outdoor use
Exposure assessment	7 ppm
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,35
Lead substance	2-butoxyethanol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	dermal, long-term - systemic
	Outdoor use
Exposure assessment	14 mg/kg/d

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Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,183
Lead substance	2-butoxyethanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - local and systemic
	Outdoor use
Exposure assessment	2,5 ppm
Risk characterisation ratio (RCR)	0,25
Lead substance	2-(2-butoxyethoxy)ethanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
	Outdoor use
Exposure assessment	2,74 mg/kg/d
Risk characterisation ratio (RCR)	0,137
Lead substance	2-(2-butoxyethoxy)ethanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	1,25 ppm
Risk characterisation ratio (RCR)	0,125
Lead substance	2-(2-butoxyethoxy)ethanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	0,55 mg/kg/d
Risk characterisation ratio (RCR)	0,027
Lead substance	2-(2-butoxyethoxy)ethanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	5 ppm
Risk characterisation ratio (RCR)	0,5
Lead substance	2-(2-butoxyethoxy)ethanol
<b>Workers (professional)</b>	
SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	2,14 mg/kg/d
Risk characterisation ratio (RCR)	0,107
Lead substance	2-(2-butoxyethoxy)ethanol

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**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic
	Outdoor use
Exposure assessment	4,2 ppm
Risk characterisation ratio (RCR)	0,42
Lead substance	2-(2-butoxyethoxy)ethanol

**Workers (professional)**

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
	Outdoor use
Exposure assessment	1,29 mg/kg/d
Risk characterisation ratio (RCR)	0,42
Lead substance	2-(2-butoxyethoxy)ethanol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - local and systemic
	Indoor use
Exposure assessment	2 ppm
Risk characterisation ratio (RCR)	0,2
Lead substance	2-(2-butoxyethoxy)ethanol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	dermal, long-term - systemic
	Indoor use
Exposure assessment	0,69 mg/kg/d
Risk characterisation ratio (RCR)	0,034
Lead substance	2-(2-butoxyethoxy)ethanol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - local and systemic
	Outdoor use
Exposure assessment	4,2 ppm
Risk characterisation ratio (RCR)	0,42
Lead substance	2-(2-butoxyethoxy)ethanol

**Workers (professional)**

SU	SU22
PROC	PROC13
Assessment method	dermal, long-term - systemic
	Outdoor use
Exposure assessment	0,41 mg/kg/d
Risk characterisation ratio (RCR)	0,42
Lead substance	2-(2-butoxyethoxy)ethanol

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

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### **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.