

Version: 35 / WORLD

Replaces Version: 34 / WORLD

Revision: 28.11.2022 Print date: 07.09.23

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier glimtrex SIGNUM 2-Pack Lacquer mat 103005 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 2003** 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 PROC10 Roller application or brushing **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 Industrial use resulting in inclusion into or onto a matrix ERC5 Other processing without aerosol formation PROCh01 1.3. Details of the supplier of the safety data sheet Manufacturer glimtrex GmbH Orkotten 68 48291 Telgte Telephone no. +49 (0) 2504 88887111 Fax no. +49 (0) 2504 88887112 E-mail address info@glimtrex.de 1.4. Emergency telephone number Germany: +49 (0) 30 30686700 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 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), 2,4,7,9tetramethyldec-5-yne-4,7-diol, May produce an allergic reaction.



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Supplemental information

EUH210

Safety data sheet available on request.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Hazardous ingredients

2-butoxyethanol

2-butoxyethanol				
CAS No.	111-76-2			
EINECS no.	203-905-0			
Registration no.	01-2119475108-36			
Concentration	>= 1	<	5	%
Classification (F	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		onpooul o
	Skin Irrit. 2	H315		
ATE	Oral exposure	1.200		mg/kg
ATE	Dermal exposure	435		mg/kg
ATE	Inhalation exposure,	2,56		mg/l
	Dust/Mist			
2-(2-butoxyethox				
CAS No.	112-34-5			
EINECS no.	203-961-6			
Registration no.				24
Concentration	>= 1	<	4	%
Classification (F	Regulation (EC) No. 1272/2008)	11240		
	Eye Irrit. 2	H319		
	yldec-5-yne-4,7-diol			
CAS No.	126-86-3			
EINECS no.	204-809-1			
Registration no.				0/
Concentration	>= 0,1	<	1	%
Classification (F	Regulation (EC) No. 1272/2008)	LI240		
	Eye Dam. 1 Skin Sens. 1B	H318 H317		
	Aquatic Chronic 3	H412		
		11712		
2-dimethylaminoethanol				



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CAS No. EINECS no.	108-01-0 203-542-8			
Registration no.	01-2119492298-24			
Concentration	>= 0,1	<	1	%
Classification (Regul	ation (EC) No. 1272/2008)			
	Flam. Liq. 3 Acute Tox. 3	H226		Doute of experience Inhalation
	Acute Tox. 5	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 STOT SE 3 H33		5	
	alation exposure, st/Mist	0,5	mg/l	
1,2-benzisothiazol-3(
CAS No.	2634-33-5			
EINECS no.	220-120-9		0.05	0/
Concentration	ation (EC) No. 1272/2008)	<	0,05	%
Classification (regu	Acute Tox. 4	H302		
	Skin Irrit. 2	H315		
	Eye Dam. 1	H318		
	Skin Sens. 1	H317		
	Aquatic Acute 1 Aquatic Chronic 2	H400 H411		
Concentration limits	(Regulation (EC) No. 1272			
	Skin Sens. 1 H31		0,05 %	
isothiazol-3- one [EC		tion ma	ass of: 5-ch	. 247-500-7] and 2-methyl-2H - loro-2- methyl-4-isothiazolin-3-one 0-239-6] (3:1)
Concentration	0000-04-0	<	0,001	%
	ation (EC) No. 1272/2008)		-,	
	Acute Tox. 2	H330		
	Acute Tox. 2	H310		
	Acute Tox. 3 Skin Corr. 1B	H301 H314		
	Skin Sens. 1	H314		
	Aquatic Acute 1	H400		
	Aquatic Chronic 1	H410		
	Eye Dam. 1	H318		
Concentration limits	(Regulation (EC) No. 1272 Skin Corr. 1C H314		06%	
	Skin Corr. 1C H314 Skin Irrit. 2 H315		0,6 % 0,06 %	
	Eye Irrit. 2 H319		0,06 %	
	Skin Sens. 1 H317	7 >=	0,0015 %	
	Eye Dam. 1 H318		0,6 %	
	Aquatic Chronic H410	J M	= 100	

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Aquatic Acute 1 H400 M = 100

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 evelids 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, CO2, 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.

SECTION 6: Accidental release measures

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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 no 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.

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Storage classes

Storage class according to TRGS 510

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

Other information

Derived No/Minimal Effect Levels (DNEL/DMEL)

2-butoxyethanol

Type of value Reference group	Derived No Effect Level (DNEL) Workers (professional)
Duration of exposure	Long-term
Route of exposure	Dermal exposure



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	(1		
Mode of ac		Acute effects	
Concentrati	on	89	mg/kg
Type of val		Derived No Effect Level (DNEL)	
Reference		Workers (professional)	
Duration of		, , , , , , , , , , , , , , , , , , ,	
		Long-term	
Route of ex	•	inhalative	
Mode of ac		Local effects	m a /m ³
Concentrati		246	mg/m³
Type of val	ue	Derived No Effect Level (DNEL)	
Reference		Workers (professional)	
Duration of		Long-term	
Route of ex		Dermal exposure	
Mode of ac		Systemic effects	
Concentrati		75	mg/kg/d
		Derived No Effect Level (DNEL)	
Type of val		Derived No Effect Level (DNEL)	
Reference		Workers (professional)	
Duration of		Long-term	
Route of ex		inhalative	
Mode of ac		Systemic effects	
Concentrati	on	20	ppm
Type of val	ue	Derived No Effect Level (DNEL)	
Reference		Workers (professional)	
Duration of		Short-term	
Route of ex		Dermal exposure	
Mode of ac		Systemic effects	
Concentrati		89	mg/kg/d
20			
Type of val	ue	Derived No Effect Level (DNEL)	
Reference		Workers (professional)	
Duration of	exposure	Short-term	
Route of ex	posure	inhalative	
Mode of ac		Local effects	
Concentrati	on	246	mg/m³
		Derived No Effect Level (DNEL)	
Type of val		Derived No Effect Level (DNEL)	
Reference g		Workers (professional)	
Duration of		Short-term	
Route of ex		inhalative	
Mode of ac		Systemic effects	
Concentrati	on	1091	mg/m³
Type of val	ue	Derived No Effect Level (DNEL)	
Reference		Workers (professional)	
Duration of		Long-term	
Route of ex	•	Oral exposure	
Mode of ac		Systemic effects	
Concentrati		3,2	mg/kg/d
Concentrati		0,2	ing/ig/a
Type of val	ue	Derived No Effect Level (DNEL)	
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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 yelue	Derived No Effect Level (DNEL)	
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/m³
Type of value	Derived No Effect Level (DNEL)	
	Consumer	
Reference group 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/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	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/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	38	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Type of value	Derived No Effect Level (DNEL)	
Reference group		
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	



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Concentration	59	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	Systemic effects	
Concentration	49	mg/m³
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/m³
		0
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/m³
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
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)	
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Reference group Duration of exposure Roule of exposure Mode of actionWorkers (industrial) Long-term inhalative Systemic effects 10ppmType of value Reference group Duration of exposure Route of exposure Route of exposure Route of exposure Route of exposure Duration of exposure Route o			
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Reference groupWorkers (professional)Duration of exposureLong-term	•	Derived No Effect Level (DNEL)	
Duration of exposure Long-term			



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Mode of action	Systemic effects	
Concentration	0,25	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	1,76	mg/m³
Turne of volue	Derived No Effect Level (DNEL)	
Type of value Reference group	Derived No Effect Level (DNEL) Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0,43	mg/m³
Concontration	0,10	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Systemic effects	1.2
Concentration	5,28	mg/m³
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	13,53	mg/m³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	1,2	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Workers (industrial)	
Duration of exposure	Short-term	
Route of exposure	Dermal exposure	
Mode of action	Local effects	
Concentration	0,1	mg/cm ²
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	0,126	mg/kg

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



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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	0,02	mg/m³
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	0,09	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	0,02	mg/m³
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	0,04	mg/m³
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	0,11	mg/kg/d
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	0,04	mg/m³
edicted No Effect Conc	entration (PNEC)	
-butoxyethanol		
Type of value	PNEC	
Туре	Freshwater	
Concentration	8,8	mg/l
Type of value	PNEC	
Туре	Saltwater	



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Concentration	0,88	mg/l
Transform		
Type of value	PNEC	
Type	saltwater sediment	
Concentration	3,46	mg/kg
Type of value	PNEC	
Туре	Sewage treatment plant (STP)	
Concentration	463	mg/l
Concentration		
Type of value	PNEC	
Туре	Soil	
Concentration	2,33	mg/kg
2-(2-butoxyethoxy)ethanol		
Type of value	PNEC	
Туре	Freshwater	
Concentration	1	mg/l
Type of yelds	DNEC	
Type of value	PNEC	
Type Concentration	marine water	ma/l
Concentration	0,1	mg/l
Type of value	PNEC	
Туре	Fresh water sediment	
Concentration	4	mg/kg
••••••		
Type of value	PNEC	
Туре	saltwater sediment	
Concentration	0,4	mg/kg
Transform		
Type of value	PNEC	
Type Concentration	Sewage treatment plant (STP)	ma/I
Concentration	200	mg/l
Type of value	PNEC	
Туре	Soil	
Concentration	0,4	mg/l
	·	5
2-dimethylaminoethanol		
Type of value	PNEC	
Туре	Freshwater	
Concentration	0,066	mg/l
Type of value	PNEC	
Туре	Saltwater	
Concentration	0,004	mg/l
	PNEC	
Type of value Conditions		
Concentration	sporadic release 0,0661	mall
Concentration	0,0001	mg/l
Type of value	PNEC	



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Type Concentration	Fresh water sediment 0,246	mg/kg
Type of value Type Concentration	PNEC Soil 0,01	mg/kg
Type of value Type Concentration	PNEC Sewage treatment plant (STP) 10	mg/l
Type of value Type Concentration	PNEC saltwater sediment 0,015	mg/kg
isothiazol-3- one [EC no	oro-2- methyl-4-isothiazolin-3-one [EC no. o. 220-239-6] (3:1); reaction mass of: 5-chl 2-methyl-4-isothiazolin-3- one [EC no. 220	oro-2- methyl-4-isothiazolin-3-one
Type of value Type Concentration	PNEC Marine 3,39	μg/l
Type of value	PNEC	μθη
Type Concentration	Sewage treatment plant (STP) 0,23	mg/l
Type of value Type	PNEC Freshwater sediment	
Concentration	0,027	mg/kg
Type of value Type Concentration	PNEC Marine sediment 0,027	mg/kg
Type of value Type Concentration	PNEC Soil 0,01	mg/kg
Type of value Type Concentration	PNEC Freshwater 3,39	ug/l
Concentration	5,53	μg/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



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Hand protection

Protective gloves complying with EN 374.

Glove material			
Appropriate Material	butyl-	rubber	
Material thickness	>=	0,5	mm
Breakthrough time	>=	120	min
This was a survival and a firm in a	فيباعده امثلهم		

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid white	a chemi	cai pro	perties	
Colour Odour		cteristic			
Melting point					
Remarks	not de	termined			
Freezing point					
Remarks	not de	termined			
Boiling point or initial boiling	point a	and boilir	ng rang	е	
Value	-	100	to	197,6	°C
Flammability not determined					
Upper and lower explosive lin	nits				
Remarks	not de	termined			
Flash point					
Value	>	60			°C
Ignition temperature					
Remarks	not de	termined			
Decomposition temperature					
Remarks	not de	termined			
pH value					
Value		8			



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 Concentration/H2O
 100

 Viscosity
 Remarks

 Remarks
 not determined

 Solubility(ies)
 Pot determined

	Remarks	not det	ermined			
	Partition coefficient n-octanol	/water	(log value	€)		
	Remarks	not det	ermined			
	Vapour pressure					
	Remarks	not det	ermined			
	Density and/or relative density	/				
	Value	appr.	1,04			kg/l
	Temperature		20	°C		
	Relative vapour density					
	Remarks	not det	ermined			
	Particle characteristics					
	Remarks	not det	ermined			
9.2.	Other information					
	Odour threshold					
	Remarks	not det	ermined			
	Solubility in water					
	Remarks	not det	ermined			
	Efflux time					
	Value		40	to	60	s
	Temperature		20	°C		
	Method	DIN EN	N ISO 2431	- 4 mm		
	Explosive properties					
	evaluation	not det	ermined			
	Oxidising properties					
	Remarks	not det	ermined			
	Non-volatile content					
	Value		35,4			%
	Method	calcula	ted 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.



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10.5. Incompatible material Keep away from oxidising		l strongly acid materials in order to avoid
exothermic reactions.		
10.6. Hazardous decompos Carbon monoxide and carb used as prescribed.		NOx), dense black smoke, No decomposition if
SECTION 11: Toxicological i	nformation	
	classes as defined in	Regulation (EC) No 1272/2008
Acute oral toxicity ATE	> 10.000	mg/kg
Method		tion (EC) No. 1272/2008)
Remarks		the classification criteria are not met.
Acute oral toxicity (Comp	onents)	
2-butoxyethanol ATE	1200	mg/kg
2-dimethylaminoethanol		0 0
Species	rat	
LD50	1183	mg/kg
Method	OECD 401	
1,2-benzisothiazol-3(2H)-or Species	rat	
LD50	1193	mg/kg
	20-239-6] (3:1); reaction ma	-one [EC no. 247-500-7] and 2-methyl-2H - ass of: 5-chloro-2- methyl-4-isothiazolin-3-one e [EC no. 220-239-6] (3:1) mg/kg
Acute dermal toxicity		
ATE	8.802,90	mg/kg
ALE	6	
Method Remarks		tion (EC) No. 1272/2008) the classification criteria are not met.
Method	Based on available data,	
Method Remarks Acute dermal toxicity (Co	Based on available data,	
Method Remarks Acute dermal toxicity (Co 2-butoxyethanol Species	Based on available data,	
Method Remarks Acute dermal toxicity (Co 2-butoxyethanol Species LD50	Based on available data, mponents) guinea pig 435	the classification criteria are not met. mg/kg
Method Remarks Acute dermal toxicity (Co 2-butoxyethanol Species LD50 Source	Based on available data, mponents) guinea pig	the classification criteria are not met. mg/kg
Method Remarks Acute dermal toxicity (Co 2-butoxyethanol Species LD50 Source 2-dimethylaminoethanol	Based on available data, mponents) guinea pig 435 1 (reliable without restrict	the classification criteria are not met. mg/kg
Method Remarks Acute dermal toxicity (Co 2-butoxyethanol Species LD50 Source	Based on available data, mponents) guinea pig 435	the classification criteria are not met. mg/kg
Method Remarks Acute dermal toxicity (Co 2-butoxyethanol Species LD50 Source 2-dimethylaminoethanol Species LD50 reaction mass of: 5-chloro- isothiazol-3- one [EC no. 22	Based on available data, mponents) guinea pig 435 1 (reliable without restrict rabbit 1219 2- methyl-4-isothiazolin-3- 20-239-6] (3:1); reaction mag	the classification criteria are not met. mg/kg tion) mg/kg -one [EC no. 247-500-7] and 2-methyl-2H - ass of: 5-chloro-2- methyl-4-isothiazolin-3-one
Method Remarks Acute dermal toxicity (Co 2-butoxyethanol Species LD50 Source 2-dimethylaminoethanol Species LD50 reaction mass of: 5-chloro- isothiazol-3- one [EC no. 22 [EC no. 247-500-7] and 2-m	Based on available data, mponents) guinea pig 435 1 (reliable without restrict rabbit 1219 -2- methyl-4-isothiazolin-3- 20-239-6] (3:1); reaction ma ethyl-4-isothiazolin-3- one	the classification criteria are not met. mg/kg tion) mg/kg -one [EC no. 247-500-7] and 2-methyl-2H - ass of: 5-chloro-2- methyl-4-isothiazolin-3-one EC no. 220-239-6] (3:1)
Method Remarks Acute dermal toxicity (Co 2-butoxyethanol Species LD50 Source 2-dimethylaminoethanol Species LD50 reaction mass of: 5-chloro- isothiazol-3- one [EC no. 22	Based on available data, mponents) guinea pig 435 1 (reliable without restrict rabbit 1219 2- methyl-4-isothiazolin-3- 20-239-6] (3:1); reaction mag	the classification criteria are not met. mg/kg tion) mg/kg -one [EC no. 247-500-7] and 2-methyl-2H - ass of: 5-chloro-2- methyl-4-isothiazolin-3-one



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ATE Administration/Form	> Duct/I	20 Viot		mg/l
Administration/Form Method	Dust/N		Regulatio	n (EC) No. 1272/2008)
Remarks				e classification criteria are not met.
Acute inhalative toxicity				
2-butoxyethanol		,		
Species	rat			
LC50		2,56		mg/l
Duration of exposure		4	h	C C
Administration/Form	Dust/I			
Source	1 (relia	able witho	out restriction	1)
2-dimethylaminoethanol				
Species LC50	rat	0,5		mall
Duration of exposure		0,5 4	h	mg/l
Administration/Form	Dust/I	-		
Method		rsion valu	е	
reaction mass of: 5-chloro	-2- methy	/I-4-isothi	iazolin-3-or	ie [EC no. 247-500-7] and 2-methyl-2H -
isothiazol-3- one [EC no. 2	20-239-6	(3:1); rea	action mas	s of: 5-chloro-2- methyl-4-isothiazolin-3-on
[EC no. 247-500-7] and 2-n	nethyl-4-i		in-3- one [E	
ATE		0,05		mg/l
Duration of exposure Administration/Form	Dust/N	4 Mist	h	
Method		rsion valu	۵	
Remarks	Mist		0	
Skin corrosion/irritation				
Method	Calcu	lation met	hod (Regula	ation (EC) No. 1272/2008)
				ation (EC) No. 1272/2008) e classification criteria are not met.
Method	Based	l on availa		
Method Remarks Skin corrosion/irritation (Based	l on availa		
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species	Based	l on availa 1ents)		
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure	Based (Compor	l on availa 1ents) 4	able data, th	
Method Remarks Skin corrosion/irritation 2-butoxyethanol Species Duration of exposure Observation Period	Basec (Compor rabbit	l on availa 1ents) 4 28	able data, th h d	e classification criteria are not met.
Method Remarks Skin corrosion/irritation 2-butoxyethanol Species Duration of exposure Observation Period evaluation	Basec (Compor rabbit Irritati	l on availa nents) 4 28 ng to skin	h h d and mucou	
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method	Basec (Compor rabbit Irritati	l on availa 1ents) 4 28	h h d and mucou	e classification criteria are not met.
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol	Basec (Compor rabbit Irritati	I on availa nents) 4 28 ng to skin 34/449, B.	h h d and mucou	e classification criteria are not met.
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol Species	Based (Compor rabbit Irritatii EEC 8 rabbit	I on availa nents) 4 28 ng to skin 34/449, B.	h h d and mucou	e classification criteria are not met.
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol	Basec (Compor rabbit Irritatii EEC 8 rabbit	I on availa nents) 4 28 ng to skin 34/449, B.	h d and mucou 4	e classification criteria are not met.
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol Species 1,2-benzisothiazol-3(2H)-o evaluation	Based (Compor rabbit Irritatin EEC & rabbit Irritatin	I on availa nents) 4 28 ng to skin 34/449, B. ng to skin.	h d and mucou 4	e classification criteria are not met.
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol Species 1,2-benzisothiazol-3(2H)-o evaluation reaction mass of: 5-chloro isothiazol-3- one [EC no. 2	Based (Compor rabbit Irritatii EEC 8 rabbit Irritatii 0-2- methy 20-239-6]	4 28 ng to skin 34/449, B. ng to skin. /I-4-isothi (3:1); rea	h d and mucou 4 iazolin-3-or action mase	e classification criteria are not met. s membranes ne [EC no. 247-500-7] and 2-methyl-2H - s of: 5-chloro-2- methyl-4-isothiazolin-3-on
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol Species 1,2-benzisothiazol-3(2H)-o evaluation reaction mass of: 5-chloro isothiazol-3- one [EC no. 2 [EC no. 247-500-7] and 2-m	Based (Compor rabbit Irritatii EEC & rabbit Irritatii 0-2- methy 220-239-6j nethyl-4-i	4 28 ng to skin 34/449, B. ng to skin. /I-4-isothi (3:1); rea sothiazol	h d and mucou 4 iazolin-3-or action mase	e classification criteria are not met. s membranes ne [EC no. 247-500-7] and 2-methyl-2H - s of: 5-chloro-2- methyl-4-isothiazolin-3-on
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol Species 1,2-benzisothiazol-3(2H)-o evaluation reaction mass of: 5-chloro isothiazol-3- one [EC no. 2 [EC no. 247-500-7] and 2-n Species	Based (Compor rabbit Irritatin EEC 8 rabbit Irritatin 220-239-6] nethyl-4-i rabbit	4 28 ng to skin 34/449, B. ng to skin. /I-4-isothi (3:1); rea sothiazol	h d and mucou 4 iazolin-3-or action mass in-3- one [E	e classification criteria are not met. s membranes ne [EC no. 247-500-7] and 2-methyl-2H - s of: 5-chloro-2- methyl-4-isothiazolin-3-on
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol Species 1,2-benzisothiazol-3(2H)-o evaluation reaction mass of: 5-chloro isothiazol-3- one [EC no. 2 [EC no. 247-500-7] and 2-n Species evaluation	Based (Compor rabbit Irritatin EEC & rabbit Irritatin 0-2- methy 220-239-6] nethyl-4-i rabbit Sever	4 28 ng to skin 34/449, B. ng to skin. /I-4-isothi (3:1); rea sothiazol	h d and mucou 4 iazolin-3-or action mass in-3- one [E	e classification criteria are not met. s membranes ne [EC no. 247-500-7] and 2-methyl-2H - s of: 5-chloro-2- methyl-4-isothiazolin-3-on
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol Species 1,2-benzisothiazol-3(2H)-o evaluation reaction mass of: 5-chloro isothiazol-3- one [EC no. 2 [EC no. 247-500-7] and 2-n Species evaluation Species evaluation	Based (Compor rabbit Irritatin EEC 8 rabbit Irritatin 220-239-6j nethyl-4-i rabbit Sever ation	4 28 ng to skin 34/449, B. ng to skin. /I-4-isothi (3:1); rea sothiazol e skin irrit	h d and mucou 4 iazolin-3-or action mase in-3- one [E ation	e classification criteria are not met. s membranes e [EC no. 247-500-7] and 2-methyl-2H - s of: 5-chloro-2- methyl-4-isothiazolin-3-on C no. 220-239-6] (3:1)
Method Remarks Skin corrosion/irritation (2-butoxyethanol Species Duration of exposure Observation Period evaluation Method 2-dimethylaminoethanol Species 1,2-benzisothiazol-3(2H)-o evaluation reaction mass of: 5-chloro isothiazol-3- one [EC no. 2 [EC no. 247-500-7] and 2-n Species evaluation	Based (Compor rabbit Irritatin EEC 8 rabbit Irritatin 220-239-6] nethyl-4-i rabbit Sever ation Calcu	4 4 28 ng to skin 34/449, B. ng to skin. /I-4-isothi (3:1); rea sothiazol e skin irrit lation met	h d and mucou 4 iazolin-3-or action mass in-3- one [E ation hod (Regula	e classification criteria are not met. s membranes ne [EC no. 247-500-7] and 2-methyl-2H - s of: 5-chloro-2- methyl-4-isothiazolin-3-on



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rabbit 24 h 21 d Eye irritation 1 (reliable without restriction) rabbit Irritating to eyes. 2 (reliable with restrictions)
21 d Eye irritation 1 (reliable without restriction) rabbit Irritating to eyes. 2 (reliable with restrictions)
Eye irritation 1 (reliable without restriction) rabbit Irritating to eyes. 2 (reliable with restrictions) Irritating to eyes.
1 (reliable without restriction) rabbit Irritating to eyes. 2 (reliable with restrictions) Irritating to eyes.
rabbit Irritating to eyes. 2 (reliable with restrictions) Irritating to eyes.
Irritating to eyes. 2 (reliable with restrictions) Irritating to eyes.
2 (reliable with restrictions) Irritating to eyes.
Irritating to eyes.
Irritating to eyes.
Irritating to eyes.
Irritating to eyes.
-4,7-diol
Calculation method (Regulation (EC) No. 1272/2008)
Based on available data, the classification criteria are not met.
1,2-benzisothiazol-3(2H)-one
May cause sensitization by skin contact.
Causes sensitisation on guinea-pigs. -4,7-diol
May cause sensitization by skin contact.
Calculation method (Regulation (EC) No. 1272/2008)
Based on available data, the classification criteria are not met.
Calculation method (Regulation (EC) No. 1272/2008)
Based on available data, the classification criteria are not met.
Calculation method (Regulation (EC) No. 1272/2008)
Based on available data, the classification criteria are not met.
city (STOT)
Calculation method (Regulation (EC) No. 1272/2008)
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.
city (STOT) (Components)
ity - single exposure



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evaluation

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

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		
1,2-benzisothiazol-3(2H)-on Species	e Oncorhynchus m	nykiss (rainbo	w trout)
LC50	2,18	y	′ mg/l
Duration of exposure	96	h	
isothiazol-3- one [EC no. 22 [EC no. 247-500-7] and 2-me	0-239-6] (3:1); rea ethyl-4-isothiazoli	ction mass o n-3- one [EC	
Species	Oncorhynchus m	ıykiss (rainbo	w trout)
LC50	0,19		mg/l
Duration of exposure	96	h	
Daphnia toxicity (Compon	ents)		
1,2-benzisothiazol-3(2H)-on	e		
Species	Daphnia magna	(Water flea)	
EC50	2,94		mg/l
Duration of exposure	48	h	
	0-239-6] (3:1); rea	ction mass o n-3- one [EC	[EC no. 247-500-7] and 2-methyl-2H - of: 5-chloro-2- methyl-4-isothiazolin-3-one no. 220-239-6] (3:1)
EC50	0,16	,	mg/l
Duration of exposure	48	h	
2,4,7,9-tetramethyldec-5-ynd	ə-4,7-diol		
Species	Daphnia magna	(Water flea)	
EC50	91		mg/l
Duration of exposure	48	h	
Algae toxicity (Componen	ts)		
			[EC no. 247-500-7] and 2-methyl-2H - 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)



Trade name: glimtrex SIGNUM 2-Pack Lacquer mat 103005 Version: 35 / WORLD Revision: 28.11.2022 Print date: 07.09.23 Replaces Version: 34 / WORLD Species Scenedesmus capricornutum (fresh water algae) EC50 0.018 ma/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 ma/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 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); 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) Not readily biodegradable. evaluation 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 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 envrionment The product does not contain a substance that has endocrine disrupting properties with respect to nontarget organisms. 12.7. Other adverse effects **General information** For this subsection there is no ecotoxicological data available on the product as such. Page 20(32)



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

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.

SECTION 14: Transport information

	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.

SECTION 15: Regulatory information

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

VOC

VOC (EU)

7 % 73 g/l

SECTION 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 lis	sted in Chapter 3
Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 3	Acute toxicity, Category 3



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Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B STOT SE 3 Acute toxicity, Category 4 Hazardous to the aquatic environment, acute, Category 1 Hazardous to the aquatic environment, chronic, Category 2 Hazardous to the aquatic environment, chronic, Category 2 Hazardous to the aquatic environment, chronic, Category 3 Serious eye damage, Category 1 Eye irritation, Category 2 Flammable liquid, Category 3 Skin corrosion, Category 1 Skin irritation, Category 1 Skin sensitization, 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 theInternational 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 Econpmic 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



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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
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:

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

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 (professional)

Short title of the exposure scenario

Substance number:CES040

Use

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



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Maximum amount used per time or activityDuration of exposure<=</td>8h/dFrequency of exposure<=</td>220d/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
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	36,9294 mg/m ³
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,376831
Lead substance	2-butoxyethanol

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SU22 PROC10 dermal, long-term - systemic Indoor use 5,4857 mg/kg/d ESIG GES tool 0,043887 2-butoxyethanol

SU22 PROC10 inhalation, long-term - systemic Outdoor use 51,7012 ppm ECETOC TRA 0,527563 2-butoxyethanol

SU22 PROC10 dermal, long-term - systemic Outdoor use 3,2914 mg/kg/d ECETOC TRA 0,026331 2-butoxyethanol

SU22 PROC11 inhalation, long-term - systemic Indoor use 62 mg/m³ ESIG GES tool 0,632653 2-butoxyethanol

SU22 PROC11 dermal, long-term - systemic Indoor use 12,8571 mg/kg/d ESIG GES tool 0,632653 2-butoxyethanol

SU22 PROC11 inhalation, long-term - systemic Outdoor use 10 ppm

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Workers (professional) SU PROC

Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment



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Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional) SU

PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional) SU

PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC ECETOC TRA 0,5 2-butoxyethanol

SU22 PROC11 dermal, long-term - systemic Outdoor use 21 mg/kg/d ECETOC TRA 0,286 2-butoxyethanol

SU22 PROC13 inhalation, long-term - systemic Indoor use 49,2393 mg/m³ ESIG GES tool 0,502441 2-butoxyethanol

SU22 PROC13 dermal, long-term - systemic Indoor use 2,7429 mg/kg/d ESIG GES tool 0,021943 2-butoxyethanol

SU22 PROC13 inhalation, long-term - systemic Outdoor use 7 ppm ESIG GES tool 0,35 2-butoxyethanol

SU22 PROC13 dermal, long-term - systemic Outdoor use 14 mg/kg/d ESIG GES tool 0,183 2-butoxyethanol

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SU22

PROC10





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Assessment method

inhalation, long-term - local and systemic Outdoor use 2,5 ppm 0,25 2-(2-butoxyethoxy)ethanol

SU22 PROC10 dermal, long-term - systemic Outdoor use 2,74 mg/kg/d 0,137 2-(2-butoxyethoxy)ethanol

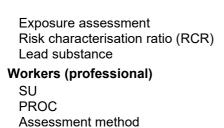
SU22 PROC10 inhalation, long-term - local and systemic Indoor use 1,25 ppm 0,125 2-(2-butoxyethoxy)ethanol

SU22 PROC10 dermal, long-term - systemic Indoor use 0,55 mg/kg/d 0,027 2-(2-butoxyethoxy)ethanol

SU22 PROC11 inhalation, long-term - local and systemic Indoor use 5 ppm 0,5 2-(2-butoxyethoxy)ethanol

SU22 PROC11 dermal, long-term - systemic Indoor use 2,14 mg/kg/d 0,107 2-(2-butoxyethoxy)ethanol

SU22 PROC11 inhalation, long-term - local and systemic Outdoor use 4,2 ppm



Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional) SU

PROC Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment



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Risk characterisation ratio (RCR) Lead substance

Workers (professional) SU PROC

Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (professional)

SU PROC Assessment method

Exposure assessment Risk characterisation ratio (RCR) Lead substance 0,42 2-(2-butoxyethoxy)ethanol

SU22 PROC11 dermal, long-term - systemic Outdoor use 1,29 mg/kg/d 0,42 2-(2-butoxyethoxy)ethanol

SU22 PROC13 inhalation, long-term - local and systemic Indoor use 2 ppm 0,2 2-(2-butoxyethoxy)ethanol

SU22 PROC13 dermal, long-term - systemic Indoor use 0,69 mg/kg/d 0,034 2-(2-butoxyethoxy)ethanol

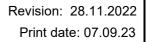
SU22 PROC13 inhalation, long-term - local and systemic Outdoor use 4,2 ppm 0,42 2-(2-butoxyethoxy)ethanol

SU22 PROC13 dermal, long-term - systemic Outdoor use 0,41 mg/kg/d 0,42 2-(2-butoxyethoxy)ethanol

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.





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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 ERC4	Industrial uses: Uses of substances as such or in preparations at industrial sites 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
PROCh02	roller coating industrial
PROC13	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



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PROC13

Physical form

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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

Treatment of articles by dipping and pouring

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	
A	

Appropriate Ma	iterial	butyl-rubber			
Material thickne	ess	>	=		0,5
Breakthrough t	ime	>	=		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 (industrial)

SU PRO	0		SU3 PROC7



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Assessment method Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (industrial)

PROC Assessment method Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (industrial) PROC

Assessment method Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (industrial) PROC

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Workers (industrial)

PROC Assessment method Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (industrial)

PROC Assessment method Exposure assessment Exposure assessment (method) Risk characterisation ratio (RCR) Lead substance

Workers (industrial)

SU PROC Assessment method Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (industrial)

SU PROC inhalation, long-term - systemic 42 mg/m³ ESIG GES tool 0,428571 2-butoxyethanol

PROC7 dermal, long-term - systemic 8,5714 mg/kg/d ESIG GES tool 0,068571 2-butoxyethanol

PROC10 inhalation, long-term - systemic 55 mg/m³ EASY TRA v3.5 0,561224 2-butoxyethanol

PROC10 dermal, long-term - systemic 5,4857 mg/kg/d ESIG GES tool 0,043886 2-butoxyethanol

PROC13 inhalation, long-term - systemic 49,2393 mg/m³ ESIG GES tool 0,502441 2-butoxyethanol

PROC13 dermal, long-term - systemic 2,7429 mg/kg/d EASY TRA v3.5 0,021943 2-butoxyethanol

SU3 PROC7 inhalation, long-term - local and systemic 7 ppm 0,7 2-(2-butoxyethoxy)ethanol

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SU3

PROC7



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Assessment method Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (industrial)

SU PROC Assessment method Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (industrial)

SU PROC Assessment method Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (industrial)

SU PROC Assessment method Exposure assessment Risk characterisation ratio (RCR) Lead substance

Workers (industrial)

SU PROC Assessment method Exposure assessment Risk characterisation ratio (RCR) Lead substance dermal, long-term - systemic 2,14 mg/kg/d 0,11 2-(2-butoxyethoxy)ethanol

SU3 PROC10 inhalation, long-term - local and systemic 0,5 ppm 0,05 2-(2-butoxyethoxy)ethanol

SU3 PROC10 dermal, long-term - systemic 5,49 mg/kg/d 0,27 2-(2-butoxyethoxy)ethanol

SU3 PROC13 inhalation, long-term - local and systemic 2 ppm 0,2 2-(2-butoxyethoxy)ethanol

SU3 PROC13 dermal, long-term - systemic 0,69 mg/kg/d 0,034 2-(2-butoxyethoxy)ethanol

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.