

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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

1.1. Product identifier

glimtrex SIGNUM Hydroprimer 103010

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

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 2,4,7,9-tetramethyl-5-decyne-4,7-diol ethoxylate, 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).

3. Composition/information on ingredients

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Hazardous ingredients**2-butoxyethanol**

CAS No.	111-76-2			
EINECS no.	203-905-0			
Registration no.	01-2119475108-36			
Concentration	>= 1	<	5	%
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-(2-butoxyethoxy)ethanol

CAS No.	112-34-5			
EINECS no.	203-961-6			
Registration no.	01-2119475104-44			
Concentration	>= 1	<	4	%
Classification (Regulation (EC) No. 1272/2008)				
	Eye Irrit. 2	H319		

2,4,7,9-tetramethyl-5-decyne-4,7-diol ethoxylate

CAS No.	9014-85-1			
EINECS no.	500-022-5			
Registration no.	01-2119954393-33			
Concentration	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Eye Dam. 1	H318		
	Aquatic Chronic 3	H412		
	Skin Sens. 1	H317		

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

Note

For explanation of abbreviations see section 16.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH)),

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Article 57) (if not listed in Section 3).

4. First aid measures

4.1. Description of first aid measures

General information

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

After inhalation

When spray fog inhaled, seek medical aid.

After skin contact

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

After eye contact

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

After ingestion

Do not induce vomiting. Take medical treatment.

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

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

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

Hints for the physician / treatment

Treat symptomatically.

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.

6. Accidental release measures

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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.

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 ³	10 ppm(V)
Maximum limit value: 2(l); Skin resorption / sensibilisation: H: Y; Status: 05/2020			

2-butoxyethanol

List	Directive 2017/164 EG		
Value	98	mg/m ³	20 ppm(V)

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Short term exposure limit 246 mg/m³ 50 ppm(V)
 Skin resorption / sensibilisation: H; Status: 12/2009

2-(2-butoxyethoxy)ethanol

List TRGS 900
 Value 67 mg/m³ 10 ppm(V)
 Maximum limit value: 1,5(I); Pregnancy group: Y; Status: 05/2020

2-(2-butoxyethoxy)ethanol

List Directive 2017/164 EG
 Value 67,5 mg/m³ 10 ppm(V)
 Short term exposure limit 101,2 mg/m³ 15 ppm(V)
 Status: 12/2009

Other information

-

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/m³

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

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Reference group	Workers (professional)	
Duration of exposure	Short-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	246	mg/m ³
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 ³
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 ³
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 ³
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	

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Concentration	6,3	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	106,4	mg/m ³
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 ³
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 ³
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 ³
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 ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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)	
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 ³

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	

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Concentration	5	mg/kg/d
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	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 ³

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 ³

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 ³

2,4,7,9-tetramethyl-5-decyne-4,7-diol ethoxylate

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	1,76	mg/m ³

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	0,5	mg/kg/d

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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	
Concentration	5,28	mg/m ³
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	0,25	mg/kg/d
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	0,75	mg/kg/d
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	0,75	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long-term	
Route of exposure	Dermal exposure	
Mode of action	Systemic effects	
Concentration	0,25	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	0,43	mg/m ³
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	1,29	mg/m ³

Predicted No Effect Concentration (PNEC)

2-butoxyethanol

Type of value PNEC

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Type	Freshwater	
Concentration	8,8	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,88	mg/l
Type of value	PNEC	
Type	saltwater sediment	
Concentration	3,46	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	463	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	2,33	mg/kg

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

2-dimethylaminoethanol

Type of value	PNEC	
Type	Freshwater	
Concentration	0,0661	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,00661	mg/l

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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
2,4,7,9-tetramethyl-5-decyne-4,7-diol ethoxylate		
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	7	mg/l
Type of value	PNEC	
Type	saltwater sediment	
Concentration	0,032	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0,004	mg/l
Type of value	PNEC	
Type	Fresh water sediment	
Concentration	0,32	mg/kg
Type of value	PNEC	
Type	Freshwater	
Concentration	0,04	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	0,028	mg/kg

8.2. Exposure controls

Exposure controls

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

Respiratory protection

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

Hand protection

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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.

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

Form liquid

Colour white

Odour characteristic

Odour threshold

Remarks not determined

pH value

Value 6,4

Concentration/H₂O 100

Melting point

Remarks not determined

Freezing point

Remarks not determined

Initial boiling point and boiling range

Remarks not determined

Flash point

Value $>$ 60 °C

Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Vapour density

Remarks not determined

DensityValue appr. 1,04 kg/l
Temperature 20 °C**Solubility in water**

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Viscosity

Remarks not determined

Efflux timeValue 27 to 33 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 33,4 %
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.

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NOx), 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

Species	guinea pig		
LD50	1414		mg/kg
Method	OECD 401		
Source	1 (reliable without restriction)		

2-dimethylaminoethanol

Species	rat		
LD50	1183		mg/kg
Method	OECD 401		

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

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

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Duration of exposure 4 h
Administration/Form Dust/Mist
Method conversion value

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

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-tetramethyl-5-decyne-4,7-diol ethoxylate****Sensitization**

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

Sensitization (Components)**2,4,7,9-tetramethyl-5-decyne-4,7-diol ethoxylate**

Species mouse
evaluation May cause sensitization by skin contact.
Source 1 (reliable without restriction)

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

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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)**2,4,7,9-tetramethyl-5-decyne-4,7-diol ethoxylate**

Species	Cyprinus carpio (Carp)		
LC50	42		mg/l
Duration of exposure	96	h	

12.2. Persistence and degradability**General information**

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

Biodegradability (Components)**2,4,7,9-tetramethyl-5-decyne-4,7-diol ethoxylate**

Value	1		%
Duration of test evaluation	28	d	
	Not readily biodegradable.		

12.3. Bioaccumulative potential**General information**

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

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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

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.

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.

15. Regulatory information

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

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Water Hazard Class (Germany)

Water Hazard Class WGK 1

(Germany)

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

VOC

VOC (EU) 2,9 % 30 g/l

Other information

All components are contained in the TSCA inventory or exempted.

16. Other information**Hazard statements listed in Chapter 3**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
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
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
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

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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
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.

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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

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

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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

Breakthrough time \geq 120

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

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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

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

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

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

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

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

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

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/m³
 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

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

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

PROC	PROC13
Assessment method	inhalation, long-term - systemic
	Indoor use
Exposure assessment	49,2393 mg/m ³
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
Exposure assessment (method)	ESIG GES tool
Risk characterisation ratio (RCR)	0,183
Lead substance	2-butoxyethanol
Workers (professional)	
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
Workers (professional)	
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
Workers (professional)	

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

SU	SU22
PROC	PROC10
Assessment method	inhalation, long-term - local and systemic
Exposure assessment	Indoor use
Risk characterisation ratio (RCR)	1,25 ppm
Lead substance	0,125
	2-(2-butoxyethoxy)ethanol

Workers (professional)

SU	SU22
PROC	PROC10
Assessment method	dermal, long-term - systemic
Exposure assessment	Indoor use
Risk characterisation ratio (RCR)	0,55 mg/kg/d
Lead substance	0,027
	2-(2-butoxyethoxy)ethanol

Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	inhalation, long-term - local and systemic
Exposure assessment	Indoor use
Risk characterisation ratio (RCR)	5 ppm
Lead substance	0,5
	2-(2-butoxyethoxy)ethanol

Workers (professional)

SU	SU22
PROC	PROC11
Assessment method	dermal, long-term - systemic
Exposure assessment	Indoor use
Risk characterisation ratio (RCR)	2,14 mg/kg/d
Lead substance	0,107
	2-(2-butoxyethoxy)ethanol

Workers (professional)

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

Workers (professional)

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

Workers (professional)

SU	SU22
PROC	PROC13
Assessment method	inhalation, long-term - local and systemic

Trade name: glimtrex SIGNUM Hydroprimer 103010

Version: 29 / DE

Revision: 31.07.2020

Replaces Version: 28 / DE

Print date: 22.06.21

Exposure assessment	Indoor use	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

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.