

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

1.1. Product identifier

glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

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 1002 |
| SU3 | Industrial uses: Uses of substances as such or in preparations at industrial sites |
| ERC4 | Industrial use of processing aids in processes and products, not becoming part of articles |
| ERC5 | Industrial use resulting in inclusion into or onto a matrix |
| PROCh02 | roller coating industrial |

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 Hydroxyphenylbenzotriazole derivates reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene), reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

Supplemental information

EUH210

Safety data sheet available on request.

2.3. Other hazards

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

3. Composition/information on ingredients**Hazardous ingredients****2-butoxyethanol**

CAS No. 111-76-2

EINECS no. 203-905-0

Registration no. 01-2119475108-36

Concentration ≥ 1 < 6 %

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 < 3 %

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

Eye Irrit. 2

H319

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

CAS No. 126-86-3

EINECS no. 204-809-1

Registration no. 01-2119954390-39

Concentration $\geq 0,1$ < 1 %

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

Eye Dam. 1

H318

Skin Sens. 1B

H317

Aquatic Chronic 3

H412

Triethylamine (neutralized form)

CAS No. 121-44-8

EINECS no. 204-469-4

Registration no. 01-2119475467-26

Concentration $\geq 0,1$ < 1 %

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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | | |
|---------------|------|--|
| Flam. Liq. 2 | H225 | Route of exposure: Inhalation exposure |
| Acute Tox. 3 | H331 | |
| Acute Tox. 3 | H311 | Route of exposure: Dermal exposure |
| Acute Tox. 4 | H302 | |
| Skin Corr. 1A | H314 | Route of exposure: Oral exposure |
| STOT SE 3 | H335 | |

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

STOT SE 3 H335 ≥ 1 %

Hydroxyphenylbenzotriazole derivatives reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

EINECS no. 400-830-7

Registration no. 01-0000015075-76

Concentration $\geq 0,1$ < 1 %

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

Skin Sens. 1 H317

Aquatic Chronic 2 H411

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

CAS No. 55965-84-9

EINECS no. 247-500-7

Concentration < 0,001 %

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

Acute Tox. 2 H330

Acute Tox. 2 H310

Acute Tox. 3 H301

Skin Corr. 1B H314

Skin Sens. 1 H317

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Eye Dam. 1 H318

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

Skin Corr. 1C H314 $\geq 0,6$ %Skin Irrit. 2 H315 $\geq 0,06$ %Eye Irrit. 2 H319 $\geq 0,06$ %Skin Sens. 1 H317 $\geq 0,0015$ %Eye Dam. 1 H318 $\geq 0,6$ %

Aquatic Chronic 1 H410 M = 100

1

Aquatic Acute 1 H400 M = 100

Note

For explanation of abbreviations see section 16.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) (if not listed in Section 3).

4. First aid measures

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

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) | |
|---------------|--------------------------------|--|

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | |
| 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 | |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | | |
|----------------------------------|--------------------------------|-------------------|
| 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 | |
| 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 | |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | |
| 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 |

Hydroxyphenylbenzotriazole derivates reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

| | | |
|----------------------|--------------------------------|--|
| 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 | |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | | |
|----------------------|--------------------------------|-------------------|
| Concentration | 0,35 | 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 |
| 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 | 0,085 | 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 | 0,25 | mg/kg |
| 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 | 0,025 | mg/kg/d |

Triethylamine (neutralized form)

| | | |
|----------------------|--------------------------------|-------------------|
| 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 | 8,4 | mg/m ³ |
| 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 | 8,4 | mg/m ³ |
| 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 | 12,6 | mg/m ³ |
| Type of value | Derived No Effect Level (DNEL) | |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | | |
|----------------------|----------------------|-------------------|
| Reference group | Workers (industrial) | |
| Duration of exposure | Short-term | |
| Route of exposure | inhalative | |
| Mode of action | Systemic effects | |
| Concentration | 12,6 | 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 | 12,1 | mg/kg/d |

Predicted No Effect Concentration (PNEC)

2-butoxyethanol

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

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

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

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

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

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 |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

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

Hydroxyphenylbenzotriazole derivates reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,0023 | mg/l |

| | | |
|---------------|--------------|------|
| Type of value | PNEC | |
| Type | marine water | |
| Concentration | 0,00023 | mg/l |

| | | |
|---------------|------------------|------|
| Type of value | PNEC | |
| Conditions | sporadic release | |
| Concentration | 0,028 | mg/l |

| | | |
|---------------|------------------------------|------|
| Type of value | PNEC | |
| Type | Sewage treatment plant (STP) | |
| Concentration | 10 | mg/l |

| | | |
|---------------|----------------------|-------|
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 3,06 | mg/kg |

| | | |
|---------------|--------------------|-------|
| Type of value | PNEC | |
| Type | saltwater sediment | |
| Concentration | 0,306 | mg/kg |

| | | |
|---------------|------|-------|
| Type of value | PNEC | |
| Type | Soil | |
| Concentration | 2 | mg/kg |

Triethylamine (neutralized form)

| | | |
|---------------|------------|------|
| Type of value | PNEC | |
| Type | Freshwater | |
| Concentration | 0,064 | mg/l |

| | | |
|---------------|--------------|------|
| Type of value | PNEC | |
| Type | marine water | |
| Concentration | 0,0064 | mg/l |

| | | |
|---------------|----------------------|-------|
| Type of value | PNEC | |
| Type | Fresh water sediment | |
| Concentration | 0,1992 | mg/kg |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | | | |
|---------------|------------------------------|--|-------|
| Type of value | PNEC | | |
| Type | Soil | | |
| Concentration | 2,361 | | mg/kg |
| Type of value | PNEC | | |
| Type | Sewage treatment plant (STP) | | |
| Concentration | 100 | | mg/l |
| Type of value | PNEC | | |
| Conditions | sporadic release | | |
| Concentration | 0,064 | | mg/l |

8.2. Exposure controls

Exposure controls

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

Respiratory protection

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

Hand protection

Protective gloves complying with EN 374.

Glove material

Appropriate Material butyl-rubber

Material thickness \geq 0,5 mm

Breakthrough time \geq 120 min

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

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

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

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

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

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

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 | milky |
| Odour | characteristic |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

Odour threshold

Remarks not determined

pH value

Remarks not determined

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

Vapour density

Remarks not determined

DensityValue appr. 1,024 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 28 to 42 s
Temperature 20 °C
Method DIN EN ISO 2431 - 4 mm**Explosive properties**

evaluation not determined

Oxidising properties

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

Remarks not determined

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

| | | |
|--------|------------------|---|
| Value | 28,8 | % |
| Method | calculated value | |

10. Stability and reactivity**10.1. Reactivity**

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

To avoid thermal decomposition, do not overheat.

10.4. Conditions to avoid

Isolate from sources of heat, sparks and open flame.

10.5. Incompatible materials

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

10.6. Hazardous decomposition productsCarbon monoxide and carbon dioxide, nitrous oxides (NO_x), 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) | |

Triethylamine (neutralized form)

| | | |
|---------|-----|-------|
| Species | rat | |
| LD50 | 730 | mg/kg |

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

| | | |
|--------|------------------|-------|
| ATE | 100 | mg/kg |
| Method | conversion value | |

Acute dermal toxicity

| | | |
|-----|----------|-------|
| ATE | 7.560,77 | mg/kg |
|-----|----------|-------|

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

44
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)

Triethylamine (neutralized form)

Species rabbit
LD50 570 mg/kg

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

ATE 50 mg/kg
Method conversion

Acute inhalational toxicity

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

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

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

Triethylamine (neutralized form)

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

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

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)**2-butoxyethanol**

Species rabbit
Duration of exposure 4 h

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

Observation Period 28 d
evaluation Irritating to skin and mucous membranes
Method EEC 84/449, B.4

Triethylamine (neutralized form)

evaluation Causes burns.

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

Species rabbit
evaluation Severe skin irritation

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)

Triethylamine (neutralized form)

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

Sensitization

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

Sensitization (Components)

Hydroxyphenylbenzotriazole derivates reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Species guinea pig
evaluation May cause sensitization by skin contact.
Method OECD Test Guideline 406

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

evaluation May cause sensitization by skin contact.

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

Species guinea pig
evaluation Causes sensitisation on guinea-pigs.

Mutagenicity

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

Reproductive toxicity

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)

Single exposure

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

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)

Triethylamine (neutralized form)

Specific target organ toxicity - single exposure

Remarks Organs: Respiratory tract
May cause respiratory irritation.

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)

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

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

Daphnia toxicity (Components)

Hydroxyphenylbenzotriazole derivates reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Species Daphnia magna (Water flea)
EC50 4 mg/l
Method OECD Test Guideline 202

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

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

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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

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

Algae toxicity (Components)

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

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

Bacteria toxicity (Components)

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

| | | |
|---------|------------------|------|
| Species | activated sludge | |
| EC50 | 4,5 | mg/l |

12.2. Persistence and degradability

General information

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

Biodegradability (Components)

Hydroxyphenylbenzotriazole derivates reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

evaluation Not readily biodegradable.

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

evaluation Not readily biodegradable.

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

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

Triethylamine (neutralized form)

log Pow to 1,45

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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) WGK 1

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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

VOC

VOC (EU) 6,1 % 62 g/l

Other information

All components are contained in the TSCA inventory or exempted.

16. Other information

Hazard statements listed in Chapter 3

| | |
|------|---|
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

CLP categories listed in Chapter 3

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

Abbreviations

ADR - Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID - Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG - International Maritime Code for Dangerous Goods
IATA - International Air Transport Association

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

IATA-DGR - Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO-TI - Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS - Globally Harmonized System of Classification and Labelling of Chemicals
EINECS - European Inventory of Existing Commercial Chemical Substances
CAS - Chemical Abstracts Service (division of the American Chemical Society)
GefStoffV - Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL - Lowest Observed Adverse Effect Level
LOEL - Lowest Observed Effect Level
NOAEL - No Observed Adverse Effect Level
NOEC - No Observed Effect Concentration
NOEL - No Observed Effect Level
OECD - Organisation for Economic Cooperation and Development
VOC - Volatile Organic Compounds

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

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

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

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

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

Annex to the extended Safety Data Sheet (eSDS)

Short title of the exposure scenario

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

Use of the substance/preparation

Surface treatment of wood and other materials

Use

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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

Waste water

Do not discharge into the drains/surface waters/groundwater.

Exhaust air

Keep container closed. Avoid release to the environment.

Soil

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

Disposal recommendations for the product

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

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

modified product

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

Dried residues

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

Disposal recommendations for packaging

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

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

Contributing exposure scenario controlling worker exposure (professional)

Short title of the exposure scenario

Substance number:CES040

Use

| | |
|---------|--|
| 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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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 \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 |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | |
|-----------------------------------|----------------------------------|
| Exposure assessment (method) | ESIG GES tool |
| Risk characterisation ratio (RCR) | 0,043887 |
| Lead substance | 2-butoxyethanol |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| | Outdoor use |
| Exposure assessment | 51,7012 ppm |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,527563 |
| Lead substance | 2-butoxyethanol |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC10 |
| Assessment method | dermal, long-term - systemic |
| | Outdoor use |
| Exposure assessment | 3,2914 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,026331 |
| Lead substance | 2-butoxyethanol |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | inhalation, long-term - systemic |
| | Indoor use |
| Exposure assessment | 62 mg/m ³ |
| 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 |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | |
|-----------------------------------|---|
| Assessment method | dermal, long-term - systemic Outdoor use |
| Exposure assessment | 21 mg/kg/d |
| Exposure assessment (method) | ECETOC TRA |
| Risk characterisation ratio (RCR) | 0,286 |
| Lead substance | 2-butoxyethanol |
| Workers (professional) | |
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - systemic Indoor use |
| Exposure assessment | 49,2393 mg/m 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) | |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | |
|-----------------------------------|------------------------------|
| 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)

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

Workers (professional)

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

Workers (professional)

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

Workers (professional)

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

Workers (professional)

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

Workers (professional)

| | |
|-------------------|------------------------------|
| SU | SU22 |
| PROC | PROC11 |
| Assessment method | dermal, long-term - systemic |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

| | |
|-----------------------------------|--|
| Exposure assessment | Outdoor use |
| Risk characterisation ratio (RCR) | 1,29 mg/kg/d |
| Lead substance | 0,42 |
| Workers (professional) | 2-(2-butoxyethoxy)ethanol |
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | Indoor use |
| Risk characterisation ratio (RCR) | 2 ppm |
| Lead substance | 0,2 |
| Workers (professional) | 2-(2-butoxyethoxy)ethanol |
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | Indoor use |
| Risk characterisation ratio (RCR) | 0,69 mg/kg/d |
| Lead substance | 0,034 |
| Workers (professional) | 2-(2-butoxyethoxy)ethanol |
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | Outdoor use |
| Risk characterisation ratio (RCR) | 4,2 ppm |
| Lead substance | 0,42 |
| Workers (professional) | 2-(2-butoxyethoxy)ethanol |
| SU | SU22 |
| PROC | PROC13 |
| Assessment method | dermal, long-term - systemic |
| Exposure assessment | Outdoor use |
| Risk characterisation ratio (RCR) | 0,41 mg/kg/d |
| Lead substance | 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.

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

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

Use

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

| | |
|----------------|--|
| 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 |
|----------------|---|

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

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

Contributing exposure scenario controlling worker exposure

Use

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

Physical form

liquid

Maximum amount used per time or activity

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

Other relevant operational conditions

Use: Room temperature
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.

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

Exposure estimation and reference to its source**Workers (industrial)**

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

Workers (industrial)

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

Workers (industrial)

| | |
|-----------------------------------|----------------------------------|
| PROC | PROC10 |
| Assessment method | inhalation, long-term - systemic |
| Exposure assessment | 55 mg/m ³ |
| Exposure assessment (method) | EASY TRA v3.5 |
| Risk characterisation ratio (RCR) | 0,561224 |
| Lead substance | 2-butoxyethanol |

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

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

Workers (industrial)

| | |
|---------------------|--|
| SU | SU3 |
| PROC | PROC7 |
| Assessment method | inhalation, long-term - local and systemic |
| Exposure assessment | 7 ppm |

Safety data sheet in accordance with regulation (EC) No 1907/2006

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus 103006

Version: 37 / DE

Revision: 31.07.2020

Replaces Version: 36 / DE

Print date: 16.11.20

Risk characterisation ratio (RCR) 0,7
Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3
PROC PROC7
Assessment method dermal, long-term - systemic
Exposure assessment 2,14 mg/kg/d
Risk characterisation ratio (RCR) 0,11
Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3
PROC PROC10
Assessment method inhalation, long-term - local and systemic
Exposure assessment 0,5 ppm
Risk characterisation ratio (RCR) 0,05
Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3
PROC PROC10
Assessment method dermal, long-term - systemic
Exposure assessment 5,49 mg/kg/d
Risk characterisation ratio (RCR) 0,27
Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3
PROC PROC13
Assessment method inhalation, long-term - local and systemic
Exposure assessment 2 ppm
Risk characterisation ratio (RCR) 0,2
Lead substance 2-(2-butoxyethoxy)ethanol

Workers (industrial)

SU SU3
PROC PROC13
Assessment method dermal, long-term - systemic
Exposure assessment 0,69 mg/kg/d
Risk characterisation ratio (RCR) 0,034
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.