

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus Hardener 103006

Version: 30 / DE

Revision: 31.07.2020

Replaces Version: 29 / 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 Hardener 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

### 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)

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

Flam. Liq. 3	H226
Acute Tox. 4	H332
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008  
 For explanation of abbreviations see section 16.

### 2.2. Label elements

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

#### Hazard pictograms



#### Signal word

Warning

#### Hazard statements

H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.

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H335 May cause respiratory irritation.

**Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains Hexamethylene-di-isocyanate; n,n-dimethylcyclohexylamine; 1,6-hexamethylene diisocyanate homopolymer

**Supplemental information**

EUH204 Contains isocyanates. May produce an allergic reaction.

**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****1,6-hexamethylene diisocyanate homopolymer**

CAS No. 28182-81-2

EINECS no. 500-060-2

Registration no. 01-2119485796-17

Concentration &gt;= 50 &lt; 90 %

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

Acute Tox. 4 H332 Route of exposure: Inhalation exposure

Skin Sens. 1 H317

STOT SE 3 H335

Respiratory tract

**polyethyleneglycol tridecyl ether phosphate**

CAS No. 9046-01-9

Concentration &gt;= 1 &lt; 3 %

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

Eye Dam. 1 H318

Skin Irrit. 2 H315

Aquatic Chronic 3 H412

**n,n-dimethylcyclohexylamine**

CAS No. 98-94-2

EINECS no. 202-715-5

Registration no. 01-2119533030-60

Concentration &gt;= 0,1 &lt; 0,9 %

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

Flam. Liq. 3 H226

Met. Corr. 1 H290

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Acute Tox. 3	H301	Route of exposure: Oral exposure
Acute Tox. 3	H311	Route of exposure: Dermal exposure
Acute Tox. 3	H331	Route of exposure: Inhalation exposure
Skin Corr. 1B	H314	
Eye Dam. 1	H318	
Aquatic Chronic 2	H411	

**Hexamethylene-di-isocyanate**

CAS No. 822-06-0

EINECS no. 212-485-8

Registration no. 01-2119457571-37

Concentration  $\geq 0,1$  < 0,3 %

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

Acute Tox. 4 H302

Acute Tox. 1 H330

Route of exposure: Oral exposure

Route of exposure: Inhalation exposure

Eye Irrit. 2 H319

STOT SE 3 H335

Skin Irrit. 2 H315

Resp. Sens. 1 H334

Skin Sens. 1 H317

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

Resp. Sens. 1 H334  $\geq 0,5$  %Skin Sens. 1 H317  $\geq 0,5$  %**Note**

For explanation of abbreviations see section 16.

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

**4. First aid measures****4.1. Description of first aid measures****General information**

In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious place in recovery position and seek medical advice. First aider: Pay attention to self-protection! Remove affected person from danger area, lay him down.

**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Keep warm, calm and covered up. In all cases of doubt, or when symptoms persist, seek medical attention.

**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.

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#### **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. Based on the properties of the isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitisation of the respiratory system leading to an asthmatic condition, wheeziness and a tightness of the chest.

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

##### **Hints for the physician / treatment**

Treat symptomatically.

### **5. Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

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

##### **Non suitable extinguishing media**

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

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

Vapours can form an explosive mixture with air.

#### **5.3. Advice for firefighters**

##### **Other information**

Standard procedure for chemical fires.

### **6. Accidental release measures**

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

Eliminate all ignition sources if safe to do so. Ensure adequate ventilation. 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**

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep container tightly closed and dry in a cool, well-ventilated place. Use only with adequate ventilation/personal protection. Ensure adequate

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ventilation. 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. Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this mixture is used. 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

Vapours can form an explosive mixture with air. Vapours are heavier than air and may spread along floors. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Take measures to prevent the build up of electrostatic charge. Wear shoes with conductive soles. No sparking tools should be used. Fight fire with normal precautions from a reasonable distance.

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

### Requirements for storage rooms and vessels

Provide solvent-resistant and impermeable floor. 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

Keep away from oxidising agents, strongly alkaline and strongly acid materials, amines, alcohols and water.

### Storage classes

Storage class according to TRGS 510      3      Flammable liquid

### Further information on storage conditions

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

## 7.3. Specific end use(s)

See exposure scenario, if available.

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Other information

-

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

##### 1,6-hexamethylene diisocyanate homopolymer

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	1	mg/m <sup>3</sup>

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

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Concentration 0,5 mg/m<sup>3</sup>

**Hexamethylene-di-isocyanate**

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 0,07 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Workers (professional)  
 Duration of exposure Long-term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 0,035 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Workers (professional)  
 Duration of exposure Long-term  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 0,035 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

**1,6-hexamethylene diisocyanate homopolymer**

Type of value PNEC  
 Type Freshwater  
 Concentration 0,127 mg/l

Type of value PNEC  
 Type marine water  
 Concentration 0,0127 mg/l

Type of value PNEC  
 Type Fresh water sediment  
 Concentration 266,7 g/kg

Type of value PNEC  
 Type saltwater sediment  
 Concentration 4,455 g/kg

Type of value PNEC  
 Type Soil  
 Concentration 53,2 g/kg

Type of value PNEC  
 Type Sewage treatment plant (STP)  
 Concentration 38,28 mg/l

**Hexamethylene-di-isocyanate**

Type of value PNEC

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Type	Freshwater		
Concentration	>	0,0774	mg/l
Type of value	PNEC		
Type	Saltwater		
Concentration	>	0,00774	mg/l
Type of value	PNEC		
Type	Fresh water sediment		
Concentration	>	0,01334	mg/kg
Type of value	PNEC		
Type	saltwater sediment		
Concentration	>	0,001334	mg/l
Type of value	PNEC		
Type	Soil		
Concentration	>	0,0026	mg/kg
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration		8,42	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

Multilayer gloves made from

Appropriate Material Fluorinated rubber / butyl-rubber

Material thickness >= 0,7 mm

Breakthrough time >= 30 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

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Wear eye glasses with side protection according to EN 166.

**Body protection**

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

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

<b>Form</b>	liquid
<b>Colour</b>	clear
<b>Odour</b>	characteristic
<b>Odour threshold</b>	
Remarks	not determined
<b>pH value</b>	
Remarks	not determined
<b>Melting point</b>	
Remarks	not determined
<b>Freezing point</b>	
Remarks	not determined
<b>Initial boiling point and boiling range</b>	
Value	161 to 175 °C
<b>Flash point</b>	
Value	58 °C
<b>Evaporation rate</b>	
Remarks	not determined
<b>Flammability (solid, gas)</b>	
not determined	
<b>Upper/lower flammability or explosive limits</b>	
Remarks	not determined
<b>Vapour pressure</b>	
Remarks	not determined
<b>Vapour density</b>	
Remarks	not determined
<b>Density</b>	
Value	appr. 1,051 kg/l
Temperature	20 °C
<b>Solubility in water</b>	
Remarks	not determined
<b>Solubility(ies)</b>	
Remarks	not determined
<b>Partition coefficient: n-octanol/water</b>	
Remarks	not determined
<b>Ignition temperature</b>	
Remarks	not determined



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**Decomposition temperature**

Remarks not determined

**Viscosity**

Remarks not determined

**Efflux time**

Value	25	to	25	s
Temperature	20	°C		
Method	DIN 53211 4 mm			

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

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

Value	69,4	%
Method	calculated value	

**Other information**

This information is not available.

**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. Uncontrolled exothermic reactions occur with amines and alcohols. The product reacts slowly with water resulting in evolution of carbon dioxide. Gaseous decomposition products cause pressure to build up in tightly sealed vessels. Precautions should be taken to minimise exposure to atmospheric humidity or water: CO<sub>2</sub> will be formed which in closed containers can result in pressurisation.

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide, nitrous oxides (NO<sub>x</sub>), dense black smoke, hydrocyanic acid,  
Stable under recommended storage and handling conditions (see section 7).

**11. Toxicological information****11.1. Information on toxicological effects****Acute oral toxicity**

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

**Acute oral toxicity (Components)****Hexamethylene-di-isocyanate**

Species rat  
 LD50 746 mg/kg  
 Method OECD 401

**n,n-dimethylcyclohexylamine**

Species rat  
 LD50 272 mg/kg

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****n,n-dimethylcyclohexylamine**

Species rat  
 LD50 380 mg/kg

**Acute inhalational toxicity**

ATE 2,3038 mg/l  
 Administration/Form Dust/Mist  
 Method calculated value (Regulation (EC) No. 1272/2008)  
 Remarks The classification criteria are met.

**Acute inhalative toxicity (Components)****1,6-hexamethylene diisocyanate homopolymer**

Species rat  
 LC50 2,81 mg/l  
 Duration of exposure 4 h  
 Administration/Form Dust/Mist  
 Remarks Mist

**Hexamethylene-di-isocyanate**

Species rat  
 LC50 0,015 mg/l  
 Duration of exposure 4 h  
 Administration/Form Dust/Mist

**n,n-dimethylcyclohexylamine**

Species rat  
 LC50 0,7 mg/l  
 Duration of exposure 4 h  
 Administration/Form Dust/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)****Hexamethylene-di-isocyanate**

Species rabbit  
 evaluation Severe skin irritation

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**polyethyleneglycol tridecyl ether phosphate**

evaluation Irritating to skin.

**n,n-dimethylcyclohexylamine**

Species rabbit  
 Observation Period 8 d  
 evaluation Causes burns.

**Serious eye damage/irritation**

evaluation irritant  
 Method Calculation method (Regulation (EC) No. 1272/2008)  
 Remarks The classification criteria are met.

**Serious eye damage/irritation (Components)**

**Hexamethylene-di-isocyanate**

Species rabbit  
 evaluation Severe eye irritation

**polyethyleneglycol tridecyl ether phosphate**

**n,n-dimethylcyclohexylamine**

Species rabbit  
 Duration of exposure 8 d  
 Observation Period 8 d

**Sensitization**

evaluation May cause sensitization by skin contact.  
 Method Calculation method (Regulation (EC) No. 1272/2008)  
 Remarks The classification criteria are met.

**Sensitization (Components)**

**Hexamethylene-di-isocyanate**

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

**Hexamethylene-di-isocyanate**

Route of exposure inhalative  
 Species guinea pig  
 evaluation May cause sensitization by inhalation.

**1,6-hexamethylene diisocyanate homopolymer**

evaluation May cause sensitization by skin contact.

**Mutagenicity**

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

**Reproductive toxicity**

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

**Carcinogenicity**

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

**Specific Target Organ Toxicity (STOT)**

**Single exposure**

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

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Remarks evaluation The classification criteria are met.  
May cause respiratory irritation.

**Repeated exposure**

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

**Specific Target Organ Toxicity (STOT) (Components)****Hexamethylene-di-isocyanate****Specific target organ toxicity - single exposure**

evaluation May cause respiratory irritation.  
Organs: Respiratory tract

**1,6-hexamethylene diisocyanate homopolymer**

evaluation May cause respiratory irritation.  
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)****1,6-hexamethylene diisocyanate homopolymer**

Species	Danio rerio (zebra fish)		
LC50	35,2		mg/l
Duration of exposure	96	h	
Method	OECD 203		

**Daphnia toxicity (Components)****1,6-hexamethylene diisocyanate homopolymer**

Species	Daphnia magna (Water flea)		
EC50	> 100		mg/l
Duration of exposure	48	h	

**polyethyleneglycol tridecyl ether phosphate**

Species	Daphnia magna (Water flea)		
EC50	1	to 10	mg/l
Duration of exposure	48	h	

**Algae toxicity (Components)****1,6-hexamethylene diisocyanate homopolymer**

Species	Desmodesmus subspicatus		
ErC50	72		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**n,n-dimethylcyclohexylamine**

Species	Scenedesmus subspicatus		
NOEC	0,062		mg/l
Duration of exposure	72	h	

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Method OECD 201

**Bacteria toxicity (Components)****1,6-hexamethylene diisocyanate homopolymer**

Species	activated sludge	
EC50	> 10000	mg/l

**12.2. Persistence and degradability****General information**

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

**Biodegradability (Components)****1,6-hexamethylene diisocyanate homopolymer**

Value	0,0	%
evaluation	Not readily biodegradable.	

**n,n-dimethylcyclohexylamine**

Value	appr. 100	%
Duration of test	28	d
evaluation	Readily biodegradable.	

**12.3. Bioaccumulative potential****General information**

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

**Partition coefficient: n-octanol/water**

Remarks	not determined
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**12.4. Mobility in soil****General information**

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

**Mobility in soil**

no data available

**12.5. Results of PBT and vPvB assessment****General information**

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

**12.6. Other adverse effects****General information**

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

**General information / ecology**

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

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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  
EWC waste code 080113 - sludges from 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
Tunnel restriction code	D/E		
<b>14.1. UN number</b>	1263	1263	1263
<b>14.2. UN proper shipping name</b>	PAINT	PAINT	PAINT
<b>14.3. Transport hazard class(es)</b>	3	3	3
Label			
<b>14.4. Packing group</b>	III	III	III
Limited Quantity	5 l		
Transport category	3		

**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

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**VOC**

VOC (EU)	30,6	%	322	g/l
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**Other information**

All components are contained in the TSCA inventory or exempted.

**15.2. Chemical safety assessment**

For this substance / mixture a chemical safety assessment was not carried out.

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

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
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. 1	Acute toxicity, Category 1
Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Resp. Sens. 1	Respiratory sensitization, Category 1
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)

Trade name: glimtrex SIGNUM 2-Pack Lacquer Nativus Hardener 103006

Version: 30 / DE

Revision: 31.07.2020

Replaces Version: 29 / DE

Print date: 16.11.20

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.

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