

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

Version: 32 / DE

Revision: 01.07.2022

Replaces Version: 31 / DE

Print date: 15.09.22

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.

Labelling according to annex XVII to regulation (EU) No 1907/2006

As from 24 August 2023 adequate training is required before industrial or professional use

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	>= 50	<	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	>= 1	<	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	>= 0,1	<	0,9	%
Classification (Regulation (EC) No. 1272/2008)				

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Flam. Liq. 3	H226	
Met. Corr. 1	H290	
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	Route of exposure: Oral exposure
Acute Tox. 1	H330	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.

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, 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

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 ³

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/m³

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/m³

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/m³

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/m³

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 \geq 0,7 mm

Breakthrough time \geq 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**

Form	liquid
Colour	colourless
Odour	characteristic
Odour threshold	
Remarks	not determined
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Initial boiling point and boiling range	
Value	161 to 175 °C
Flash point	
Value	58 °C
Evaporation rate	
Remarks	not determined
Flammability (solid, gas)	
Remarks	not determined
Upper/lower flammability or explosive limits	
Remarks	not determined
Vapour pressure	
Remarks	not determined
Vapour density	
Remarks	not determined
Density	
Value	appr. 1,051 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

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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: CO₂ will be formed which in closed containers can result in pressurisation.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide, nitrous oxides (NO_x), 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
Method	calculated value (Regulation (EC) No. 1272/2008)		
Remarks	Based on available data, the classification criteria are not met.		

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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		

polyethyleneglycol tridecyl ether phosphate

evaluation	Irritating to skin.		
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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

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

Repeated exposure

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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	
Method	OECD 201		

Bacteria toxicity (Components)

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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

Where possible recycling is preferred to disposal or incineration.

Do not allow to enter drains or waterways.

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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		
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT
14.3. Transport hazard class(es)	3	3	3
Label			
14.4. Packing group	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

VOC

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

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Restriction according to annex XVII to regulation (EU) No 1907/2006

74. Diisocyanates. Shall not be used as substances on their own, as a constituent in other substances or in mixtures for industrial and professional use(s) after 24 August 2023, unless: the employer or self-employed ensures that industrial or professional user(s) have successfully completed training on the safe use of diisocyanates prior to the use of the substance(s) or mixture(s).

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

Training advice according to annex XVII to regulation (EU) No 1907/2006

74. Diisocyanates. The employer or self-employed shall document the successful completion of the training referred to in paragraphs 4 and 5. The training shall be renewed at least every five years.

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

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