

**SECTION 1: Identification of the substance or mixture and of the company/undertaking****1.1. Product identification**

Trade name : **WOOD VARNISH - PART B**  
Product form : Mix  
UFI code : 9FAH-CVKV-9204-HS6Y

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Recommended use : Cross-linking agent for coating materials or adhesives for industrial use, professional use. For formulations. Other information available on the technical data sheet.

**1.3 Contact details for the supplier of the safety data sheet**

SOBELTEC sa  
Klein Frankrijkstraat 43 - 9600 Ronse - Belgium T +32 55 230 600  
[info@sobeltec.be](mailto:info@sobeltec.be)  
Competent person responsible for the safety data sheet: [info@sobeltec.be](mailto:info@sobeltec.be)

**1.4. Emergency telephone number**

UK: National Poisons Information Service, City Hospital, Birmingham B187QH, UK, +44 121 507 4123  
[allistervale@npis.org](mailto:allistervale@npis.org), [sallybradberry@npis.org](mailto:sallybradberry@npis.org), <http://www.npis.org/>  
FR : National Vaccine Information Centre (NVIC), 030-274 8888  
BE: Poison control centre, 070 245 245

**SECTION 2: Hazard identification****2.1. Classification of the substance or mixture**

Classification according to Regulation 1272/2008/EC (CLP) :

Acute toxicity (by inhalation), category 4	H332
Skin corrosion/irritation, category 2	H315
Serious eye damage/eye irritation, category 1	H318
Skin sensitization, category 1	H317
Specific target organ toxicity (single exposure), category 3, respiratory tract irritation	H335

Full text of hazard statements : See section 16

Harmful physico-chemical effects and adverse effects on human health and the environment  
No additional information available

**2.2. Labelling elements**

Labelling in accordance with Regulation (EC) No 1272/2008 [CLP].

Danger pictograms :



GHS05



GHS07

Danger

Hazard statements :

H332 Harmful by inhalation.  
H315 Causes skin irritation.  
H317 May cause skin allergy.  
H318 Causes serious eye damage.

H335 May cause respiratory tract irritation.

**Safety recommendations :**

P260 Do not breathe dust/fume/gas/mist/vapour/spray.

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

P302+P352 IF ON SKIN: wash with plenty of soap and water.

P304+P340 IF INHALED: remove to fresh air and allow person to breathe freely.

P305+P351+P338 IF IN EYES: rinse gently with water for several minutes. If possible, remove any contact lenses. Continue rinsing.

P403+P233 Keep in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local regulations.

**Special provisions :**

EUH204 Contains isocyanates. May cause an allergic reaction

Special provisions in accordance with Annex XVII of REACH and subsequent amendments:

none

**2.3. Other hazards**

Flammable liquid. Reacts with water to release carbon dioxide (CO<sub>2</sub>).

Components	
Hexamethylen-1,6-diisocyanat (822-06-0)	This substance/mixture does not meet the PBT criteria of the REACH regulation, Annex XIII. This substance/mixture does not meet the vPvB criteria of the REACH regulation, Annex XIII.

**SECTION 3: Composition/information on ingredients**

**3.1 Substance**

NA

**3.2 Mixtures**

%	Name	Identification	Classification in accordance with Regulation (EC) No 1272/2008 [CLP].
~92	Hexamethylene diisocyanate oligomers , isocyanurate Substance for which a Community occupational exposure limit value is applicable	CASE: 28182-81-2 EC : 931-274-8 REACH: 01-2119485796-17-0002	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
~4	Polyoxyethylene tridecyl ether phosphate (polymer)	(CAS-Nr.) 9046-01-9	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
~2	Phosphoric acid butyl ester	(CAS-Nr.) 12788-93-1 (EG-Nr.) 235-826-2 (REACH-Nr) 01-2119970716-27	Skin Corr. 1B, H314
~2	Ethyl-diisopropylamin	(CAS-Nr.) 7087-68-5 (EG-Nr.) 230-392-0 (REACH-Nr) 01-2119973181-39	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Chronic 3, H412
<0,1	Hexamethylene-1,6-diisocyanate (Dangerous impurities ) Substance with national occupational exposure limit value (FR)	(CAS-Nr.) 822-06-0 (EG-Nr.) 212-485-8 (EG Index-Nr.) 615-011-00-1 (REACH-Nr) 01-2119457571-37-0001	Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Inhalation:vapour), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335

Specific concentration limits :		
Name	Identification	Specific concentration limits
Hexamethylene-1,6-diisocyanate (Dangerous impurities )	(CAS-Nr.) 822-06-0 (EG-Nr.) 212-485-8 (EG Index-Nr.) 615-011-00-1 (REACH-Nr) 01-2119457571-37-0001	( 0.5 ≤C < 100) Resp. Sens. 1, H334 ( 0.5 ≤C < 100) Skin Sens. 1, H317

Text of H and EUH phrases: see section 16

## SECTION 4: First aid

### 4.1. Description of first aid measures

#### In case of skin contact :

Remove contaminated clothing immediately and dispose of safely.

Immediately rinse any parts of the body that have been in contact with the toxic substance, or that you suspect may have been in contact with the substance, with plenty of running water and soap if possible. Wash your body thoroughly (shower or bath).

#### In case of contact with eyes :

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. **If**

**swallowed:** DO NOT induce vomiting **If inhaled:**

If breathing is irregular or absent, apply artificial respiration.

If inhaled, seek medical advice immediately and show the packaging or label. If you feel unwell, consult a doctor.

### 4.2. Main symptoms and effects, acute and delayed

No

### 4.3 Indication of any immediate medical attention and special treatment required

In the event of an accident or if you feel unwell, seek medical advice immediately (if possible, show the instructions for use or safety data).

Therapy:

No

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing

media :

Extinguishing powder, CO<sub>2</sub> or foam. Only use foam and water if the fire is large.

Extinguishing media not to be used for safety reasons: water jet.

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

Combustion produces thick smoke.

Do not inhale the gases produced by combustion.

### 5.3. Advice for firefighters

Use appropriate respiratory equipment.

Collect contaminated fire-fighting water separately. Do not discharge into drains. If it can be done safely, move undamaged containers out of the danger zone.

## SECTION 6: Accidental release measures for the substance or mixture

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

Wear personal protective equipment.  
Wear a respirator if exposed to vapours/dust/aerosols  
Ensure good ventilation  
Use appropriate respiratory protective equipment.  
Please refer to the protective measures described in points 7 and 8.

### 6.2. Environmental precautions

Do not allow to enter surface water, waste water or soil.  
Store contaminated rinse water and dispose of it in accordance with applicable local and national regulations.  
In the event of gas leaking or seeping into waterways, the ground or sewers, inform the relevant authorities.

### 6.3. Methods and equipment for containment and cleaning up

remove mechanically; cover the remainder with a damp, liquid-absorbent material (e.g. sawdust, calcium silicate hydrate chemical binder, sand).  
After about 1 hour, place in the waste packaging, do not reseal (CO<sub>2</sub> - development!). Keep moist and leave outside in a safe place for several days.

### 6.4. Reference to other sections See also sections 8 and 13.

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## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Avoid contact with skin and eyes, inhalation of vapours and mists.  
Use the localised ventilation system.  
Do not use empty containers until they have been cleaned.  
Before transferring, check that there is no residue of non-compatible material in the containers.  
Reference is also made to section 8 for recommended protective equipment.

Remove contaminated clothing and protective equipment before entering food service areas.  
Reference is also made to section 8 for recommended protective equipment.

**7.2. Conditions for safe storage, including any incompatibilities** Keep away from food and feed.  
Well-ventilated areas.

**7.3. Special end use(s)** No special use.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hexamethylene-1,6-diisocyanate - CAS: 822-06-0**

EU - TWA : 0.034 mg/m<sup>3</sup>, 0.005 ppm - Notes : ITALY

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OEL - TWA : 0,035 mg/m<sup>3</sup>, 0,005 ppm - STEL : 0,07 mg/m<sup>3</sup>, 0,01 ppm - Notes : DENMARK  
 OEL - TWA : 0,075 mg/m<sup>3</sup>, 0,01 ppm - STEL : 0,15 mg/m<sup>3</sup>, 0,02 ppm - Notes : FRANCE  
 OEL - TWA : 0.035 mg/m<sup>3</sup>, 0.005 ppm - STEL : 0.035 mg/m<sup>3</sup>, 0.005 ppm - OEL C 0.15 mg/m<sup>3</sup> -  
 Notes : GERMANY  
 OEL - TWA : 0,035 mg/m<sup>3</sup> - STEL : 0,035 mg/m<sup>3</sup> - Notes : HUNGARY  
 OEL - TWA : 0,04 mg/m<sup>3</sup> - STEL : 0,08 mg/m<sup>3</sup> - Notes : POLAND  
 OEL - TWA : 0,035 mg/m<sup>3</sup>, 0,005 ppm - Notes : SPAIN  
 OEL - TWA : 0,02 mg/m<sup>3</sup>, 0,002 ppm - STEL : 0,03 mg/m<sup>3</sup>, 0,005 ppm - Notes : SWEDEN  
 ACGIH - TWA(8h): 0.005 ppm - Notes: URT irr , resp sens

Exposure limit values DNEL

**Hexamethylene diisocyanate oligomers, isocyanurate - CAS: 28182-81-2**

Industrial worker: 0.5 mg/m<sup>3</sup> - Exposure: Human inhalation - Frequency: Local long-term effects

Industrial worker: 1 mg/m<sup>3</sup> - Exposure: Human inhalation - Frequency: Short-term, local effects

**Hexamethylene-1,6-diisocyanate - CAS: 822-06-0**

Industrial worker: 0.07 mg/m<sup>3</sup> - Exposure: Human inhalation - Frequency: Short-term systemic effects - Result: Irritation of the respiratory tract

Industrial worker: 0.07 mg/m<sup>3</sup> - Exposure: Human inhalation - Frequency: Local short-term effects - Result: Irritation of the respiratory tract

Industrial worker: 0.035 mg/m<sup>3</sup> - Exposure: Human inhalation - Frequency: Long-term systemic effects - Result: Irritation of the respiratory tract

Industrial worker: 0.035 mg/m<sup>3</sup> - Exposure: Human inhalation - Frequency: Long-term local effects - Endpoint: Irritation of the respiratory tract

Exposure limit values PNEC

**Hexamethylene diisocyanate oligomers, isocyanurate - CAS: 28182-81-2**

Target: Seawater - Value: 0.0127 mg/l

Target: Fresh water - Value: 0.127 mg/l

Target: Seawater sediments - Value: 26670 mg/kg

Target: Freshwater sediments - Value: 266700 mg/kg

Target: Intermittent release - Value: 1.27 mg/l

Destination: Cleaning plant - Value: 38.3 mg/l

Target: Soil - Value: 53182 mg/kg

**Ethyl-diisopropylamin (7087-68-5)**

DNEL/DMEL (workers)

Acute - systemic effect, by inhalation 12.6 mg/m<sup>3</sup>

Acute - local effect, by inhalation 12.6 mg/m<sup>3</sup>

Long-term systemic effect, dermal 2.96 mg/kg body weight/day

Long-term effect - systemic, by inhalation 4.2 mg/m<sup>3</sup> gas

Long-term local effect, by inhalation 4.2 mg/m<sup>3</sup> gas

PNEC (water)

PNEC aqua (fresh water) 0.173 mg/l

PNEC aqua (seawater) 0.0173 mg/l

PNEC aqua (intermittent, fresh water) 0.281 mg/l

PNEC (sediment)

PNEC sediment (fresh water) 41.09 mg/kg dry weight

PNEC sediment (seawater) 4.11 mg/kg dry weight

PNEC (soil)

PNEC Soil 8.12 mg/kg dry weight

PNEC (STP)

PNEC wastewater treatment plant 9.12 mg/l

**Butyl esters of phosphoric acid (12788-93-1)**

DNEL/DMEL (workers)

Acute - systemic effect, dermal 123.7 mg/kg body weight/day

Acute - systemic effect, by inhalation 872.4 mg/m<sup>3</sup>

Long-term systemic effect, dermal 1 mg/kg body weight/day

Long-term effect - systemic, by inhalation 7.05 mg/m<sup>3</sup>

DNEL/DMEL (general population)	
Acute - systemic effect, oral	61.9 mg/kg body weight
PNEC (water)	
PNEC aqua (fresh water)	100 µg/l
PNEC aqua (seawater)	10 µg/L
PNEC aqua (intermittent, fresh water)	1000 µg/L
PNEC (sediment)	
PNEC sediment (freshwater)	392 µg/kg tg
PNEC sediment (seawater)	39.2 µg/kg tg
PNEC (soil)	
PNEC Soil	19.7 µg/kg tg
PNEC (Oral)	
PNEC oral (secondary intoxication)	4 mg/kg
PNEC (STP)	
PNEC wastewater treatment plant ≥	100 mg/l

**Hexamethylene-1,6-diisocyanate - CAS: 822-06-0**

DNEL/DMEL (workers)	
Acute - local effect, by inhalation	0.07 mg/m <sup>3</sup>
Long-term local effect, by inhalation	0,035 mg/m <sup>3</sup>
PNEC (water)	
PNEC aqua (freshwater)	> 77.4 µg/l (Scenedesmus subspicatus)
PNEC aqua (seawater)	> 7.74 µg/L (Scenedesmus subspicatus)
PNEC aqua (intermittent, freshwater)	> 774 µg/L (Scenedesmus subspicatus)
PNEC (sediment)	
PNEC sediments (fresh water)	> 0.01334 mg/kg dry weight (equilibrium partitioning)
PNEC sediments (seawater)	> 0.001334 mg/kg dry weight (equilibrium partitioning)
PNEC (soil)	
PNEC Soil	> 0.0026 mg/kg dry weight equilibrium partitioning
PNEC (STP)	
PNEC wastewater treatment plant	8.42 mg/l (OECD 209)

**8.2. Exposure controls**

**8.2.1 Appropriate technical control systems**

Appropriate technical control systems :

Ensure good ventilation in the workplace. Safety showers. Eye wash bottle. Always shower after work. Do not eat, drink or smoke while working. Separate work clothes from normal clothing. Remove soiled or damp clothing immediately. Store protective clothing separately. Wash hands immediately after handling the product and again before leaving the workplace.

**8.2.2 Personal protective equipment**

Personal protective equipment :

Protective gloves. Safety goggles.

Personal protective equipment - Symbol(s) :



**8.2.2.1 Eye and face protection**

Eye protection :

Waterproof goggles

**8.2.2.2 Skin protection**

Skin and body protection: Protective suit

Hand protection: Protective nitrile rubber gloves. Chemical-resistant gloves (in accordance with NF EN 374 or equivalent standard). Protective gloves must be chosen according to the workstation, the other chemicals to be handled, the protection required against mechanical/physical risks (cuts, punctures,

heat) and the dexterity required. Protective gloves must be chosen according to the workstation, use and duration of use.

#### 8.2.2.3 Respiratory protection

Respiratory protection: If ventilation is inadequate: self-contained breathing apparatus. In case of spray application: respiratory protective equipment.

(insulating device independent of the ambient air)

#### 8.2.2.4 Thermal risks

No additional information available

#### 8.2.3 Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

features	Value	The method:	Comments:
Physical condition:	Liquid	--	--
Colour:	Colourless to pale yellow	--	--
Smell:	Typical	--	--
Melting/freezing point :	Not available	--	--
Boiling point or initial boiling point and boiling range :	>220°C	--	--
Flammability :	Not available	--	--
Upper and lower explosion limits :	Not available	--	--
Flammable point :	228°C	--	--
Auto-ignition temperature :	Not available	--	--
Breakdown temperature :	Not available	--	--
pH :	8 @ 10%	--	--
Kinematic viscosity :	> 20.5 mm <sup>2</sup> /s (40°C)	--	--
Solubility in water:	Insoluble, reacts with water	--	--
Solubility in oil :	Not available	--	--
Partition coefficient n-octanol /water (log value):	Not available	--	--
Vapour pressure:	Not available	--	--
Density and/or relative density :	1.14 g/cm <sup>3</sup>	--	--
Relative vapour density :	Not available	--	--

#### Particle characteristics :

Particle size:	Not available	--	--
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Initial boiling point and boiling range, Flash point, Evaporation rate, Upper/lower flammable or explosive limit, Vapour pressure, Auto-ignition temperature: Unless otherwise stated, data refer to solvent.

Values do not always correspond to product specifications. The specification data is in accordance with the technical data sheet.

## 9.2. Other information

features	Value	The method:	Comments:
Viscosity:	1200 mPa.s	--	--

## ARTICLE 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal storage and handling conditions.

### 10.2. Chemical stability

Stable under normal storage and handling conditions.

### 10.3 Possible dangerous reactions

Exothermic reaction with amines and alcohols; with water release of CO<sub>2</sub>: pressure build-up in closed packaging, risk of bursting.

In contact with base metals (alkali metals, alkaline earth metals, powdered alloys or vapours) and strong reducing agents, it can generate flammable gases.

In contact with oxidising mineral acids or strongly oxidising substances, it can generate toxic gases.

### 10.4 Conditions to avoid

Solid under normal conditions.

### 10.5. Incompatible materials

This information is not available.

### 10.6 Hazardous decomposition products

No hazardous decomposition products when stored and handled correctly.

## HEADING 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (Oral) : Not classified  
 Acute toxicity (skin) : Not classified  
 Acute toxicity (by inhalation): Harmful by inhalation.

#### Oligomers of hexamethylene diisocyanate isocyanurate (28182-81-2)

LD50 oral rat > 2500 mg/kg (OECD 423 (female))  
 LD50 Dermal Rat > 2000 mg/kg (OECD 402)  
 LD50 Dermal Rabbit > 2000 mg/kg  
 LC50 Inhalation - Rat 0.39 mg/l/4h (OECD 403 (female))

#### Ethyl-diisopropylamin (7087-68-5)

LD50 oral rat 317 mg/kg (92/69/EEC - B.1)  
 LD50 Dermal Rat > 2000 mg/kg (OECD 402)  
 LC50 Inhalation - Rat 2.63 mg/l (OECD 403)



**Butyl esters of phosphoric acid (12788-93-1)**

LD50 oral rat 2000 mg/kg (OECD 401)  
LD50 Dermal Rabbit > 2000 mg/kg (OECD 402)

**Hexamethylen-1,6-diisocyanat (822-06-0)**

LD50 oral rat 959 mg/kg body weight (OECD 401)  
LD50 Dermal Rat > 7000 mg/kg body weight (OECD 402)  
LC50 Inhalation - Rat 0.124 mg/l/4h (OECD 403)

Skin corrosion/irritation : Causes skin irritation.  
pH value: 8.1 @ 10% (0.1 @ 10%)  
Serious eye damage/eye irritation: Causes serious eye damage.  
pH value: 8.1 @ 10% (0.1 @ 10%)  
Respiratory tract/skin sensitisation May cause allergic skin reactions.  
Additional comments In guinea pigs, no adverse effects were observed after intradermal or inhalation exposure.  
Sensitisation of the respiratory tract has been observed during administration of HDI-based polyisocyanates.  
Germ cell mutagenicity Not classified  
Carcinogenicity Not classified  
Additional notes Under certain conditions, ethyldiisopropylamine can form a nitrosamine compound. Nitrosamine compounds have been shown to be carcinogenic in animal tests.

**Hexamethylen-1,6-diisocyanat (822-06-0)**

NOAEC, chronic, inhalation, rat 0 164 ppm ((OECD method 453))

Reproductive toxicity: Not classified

Specific target organ toxicity in case of single exposure :  
May irritate the respiratory tract. Exposure

**Oligomers of hexamethylene diisocyanate isocyanurate (28182-81-2)**

NOAEC (inhalation, rat, vapour) 3 mg/m<sup>3</sup> (6h / OECD TG 403)  
Specific target organ toxicity (single exposure)  
May irritate the respiratory tract.

**Hexamethylen-1,6-diisocyanat (822-06-0)**

Specific target organ toxicity (single exposure)  
May irritate the respiratory tract.

Repeated-dose specific target organ toxicity :  
Uncategorized Exhibition

**Oligomers of hexamethylene diisocyanate isocyanurate (28182-81-2)**

NOAEC (inhalation, rat, vapour, 90 days) 3.3 mg/l/6h/day (OECD 413)

**Hexamethylen-1,6-diisocyanat (822-06-0)**

LOAEC (inhalation, rat, vapour, 90 days) 0.01 ppm (OECD 413)  
NOAEC, chronic, inhalation, rat 0.005 ppm (2 years, (OECD method 453))

Aspiration hazard : Not classified

## 11.2 Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - General : Based on data on ingredients: Not classified as environmentally hazardous.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Dangerous for the aquatic environment, long term (chronic) : Not classified

#### **Oligomers of hexamethylene diisocyanate isocyanurate (28182-81-2)**

LC50 - Fish [1] 8,9 mg/l (Brachydanio rerio )  
EC50 - Crustaceans [1] 127 mg/l (48 h static / EU C.2)  
EC50 - other aquatic organisms [1]  
> 1000 mg/l (72h / Scenedesmus subspicatus / DIN 38412)  
ErC50 Algae > 1000 mg/l (0-72 h static / Desmodesmus subspicatus / EU C.3)  
EC50, ACTIVATED SLUDGE 3828 mg/l (3 hours, (OECD 209 method))

#### **Polyoxyethylene tridecyl ether phosphate (9046-01-9)**

LC50 - Fish [1] 10 mg/l (96h /Danio rerio )

#### **Ethyl-diisopropylamin (7087-68-5)**

LC50 - Fish [1] 69.7 mg/l (96h/ Danio rerio / OECD 203)  
EC50 - Crustaceans [1] 28.1 mg/l (48 h / OECD 202)  
EC50 - other aquatic organisms [1]  
150 mg/l ( 72 h / Pseudokirchnerella subcapitata / OECD 201)  
NOEC chronic Crustacean 1.73 mg/l ( 21d / Daphnia magna / OECD 211)  
EC50, ACTIVATED SLUDGE 912 mg/l (3 hours, (OECD method 209))

#### **Butyl esters of phosphoric acid (12788-93-1)**

LC50 - Fish [1] > 100 mg/l (Oncorhynchus mykiss)  
EC50 - Crustaceans [1] 135 mg/l (24h/ EU Method C.2)  
EC50 - other aquatic organisms [1]  
> 100 mg/l (72h / Desmodesmus subspicatus / OECD 201)

#### **Hexamethylen-1,6-diisocyanat (822-06-0)**

LC50 - Fish [1] 22 mg/l (96 h-static/ Brachydanio rerio)  
EC50 - other aquatic organisms [1] 842 mg/l (3h-static / bacterium / OECD 209)  
ErC50 Algae > 77.4 mg/l Desmodesmus subspicatus  
LOEC (chronic) 12.6 mg/l (72h / Desmodesmus subspicatus/ EU method C.3)  
NOEC (chronic) 11.7 mg/l ( 72 h /Desmodesmus subspicatus/ EU method C.3)  
EC0, daphnia ≥ 89.1 mg/l (48 hours, EU C.2)  
LC0, fish ≥ 82.8 mg/l (96 hours, EU C.1, (Danio rerio))  
EC50, bacteria 842 mg/l (3 hours, (OECD method 209))

### 12.2 Persistence and degradability

#### **WOOD VARNISH PART B**

Persistence and degradability:

On the basis of the data relating to the components : Not readily biodegradable ;

#### **Oligomers of hexamethylene diisocyanate isocyanurate (28182-81-2)**

Persistence and degradability non-biodegradable.  
Biochemical oxygen demand (BOD) 1% (bacteria / EU C.4-E)

#### **Polyoxyethylene tridecyl ether phosphate (9046-01-9)**

Persistence and degradability (inherent) biodegradable.  
 Biochemical oxygen demand (BOD) 45% (OECD 301B)  
 Chemical oxygen demand (COD) 83% (OECD 302B)

**Ethyl-diisopropylamin (7087-68-5)**

Biochemical oxygen demand (BOD) 0 - 10% (activated sludge / OECD 301F)  
 Chemical oxygen demand (COD) 10 - 20% (activated sludge / OECD 302B)

**Butyl esters of phosphoric acid (12788-93-1)**

Biochemical oxygen demand (BOD) 7% (OECD 301F)

**Hexamethylen-1,6-diisocyanat (822-06-0)**

Biochemical oxygen demand (BOD) 42% (bacteria / EU C.4-D)

**12.3. Bioaccumulation potential**

**WOOD VARNISH PART B**

Bioaccumulative potential Based on the information provided for the components : No bioaccumulative potential.

**Oligomers of hexamethylene diisocyanate isocyanurate (28182-81-2)**

BKF - Fish [1] 3.2 (BCFWIN v. 2.17)  
 Bioaccumulative potential not bioaccumulative.

**Hexamethylen-1,6-diisocyanat (822-06-0)**

BKF - Poisson [1] 58 (BCFWIN v2.17)

**12.4 Mobility in soil**

**Oligomers of hexamethylene diisocyanate isocyanurate (28182-81-2)**

Partition coefficient n-octanol/water (Log Koc) 7.8 (PCKOC v1.66)  
 Ecology - Soil Final fate of the product in the environmental compartment: soil and sediment.

**Hexamethylen-1,6-diisocyanat (822-06-0)**

Partition coefficient n-octanol/water (Log Koc) 3.77 (PCKOC v1.66)

**12.5 Results of PBT and vPvB assessment**

**Component**

**Hexamethylen-1,6-diisocyanat (822-06-0)**

This substance/mixture does not meet the PBT criteria of Annex XIII of the REACH Regulation.

This substance/mixture does not meet the vPvB criteria of Annex XIII of the REACH Regulation.

**12.6 Endocrine-disrupting properties**

No additional information available

**12.7 Other harmful effects**

No additional information available

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**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Recommendations for disposal of product/packaging waste Incinerate in an approved facility.  
Discharge into rivers or sewers is prohibited.

Additional notes      Uncleaned packaging. Contaminated packaging materials must be disposed of in the same way as the product. Completely emptied and clean packaging can be recycled.  
Disposal must be in accordance with official regulations.  
Drain carefully.

Ecology - Waste      Hazardous waste.

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**ARTICLE 14: Transport information**

- 14.1 UN number or identification number  
Non-dangerous goods in terms of transport regulations.
  - 14.2. Proper shipping name according to UN Model Regulations NA
  - 14.3. Transport hazard class(es) NA
  - 14.4 Packaging group NA
  - 14.5. Environmental hazards NA
  - 14.6. Special precautions to be taken by the user NA
  - 14.7. Sea transport in bulk in accordance with IMO instruments
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**ARTICLE 15: Regulatory information****15.1 Specific safety, health and environmental regulations and legislation for the substance or mixture**

Guide . 98/24/EC (Risks related to chemical products at work)  
Guide . 2000/39/EC (occupational exposure limits)  
Regulation (EC) n. 1907/2006 (SCOPE)  
Regulation (EC) no. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP)  
Regulation (EU) n. 2020/878  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regolamento (UE) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)

Restrictions linked to the product or its substances in accordance with Annex XVII of Regulation (EU) 1907/2006 (REACH) and subsequent amendments:

Product restrictions : Restriction 3

Restrictions on the substances it contains : No restrictions.

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Where applicable, refer to the following legislation:

Directive 2012/18/EY (Seveso III)

Regulation (EC) No 648/2004 (detergents).

Guide . 2004/42/EC (VOC Directive)

WGK classification (Water pollution class - Verwaltungsvorschrift Dusty washing machine )

Provisions on EU directives 2012/18 (Seveso III): No

## 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out

## ARTICLE 16: Other information

Other information: The product is mainly used as a hardener in coating materials or adhesives. Handling coating materials or adhesives containing reactive polyisocyanates and monomeric HDI residues requires appropriate protective measures (see also this safety data sheet). They can therefore only be used in industrial or professional applications. They are not suitable for use in DIY applications.

### Full text of H and EUH phrases :

Acute Tox. 1 (inhalation:vapour) Acute toxicity (inhalation: vapour), category 1

Acute Tox. 4 (inhalation) Acute toxicity (by inhalation), category 4

Acute toxicity 4 (Oral) Acute toxicity (oral), category 4

Aquatic Chronic 3 Chronic danger for the aquatic environment, category 3

Eye Dam. 1 Serious eye damage/eye irritation, category 1

Eye irritation. 2 Serious eye damage/eye irritation, category 2

Flam. Liq. 2 Flammable liquids, category 2

Resp. Sens. 1 Sensitisation of the respiratory tract, category 1

Skin corr. 1B Skin corrosion/irritation, category 1, subcategory 1B

Skin irritation. 2 Skin corrosion/irritation, category 2

Skin Sens. 1 Skin sensitisation, category 1

STOT SE 3 Specific target organ toxicity (single exposure), category 3, respiratory tract irritation

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes skin burns and serious eye damage.

H315 Causes skin irritation.

H317 May cause allergic skin reactions.

H318 Causes serious eye damage.

H319 Causes severe eye irritation.

H330 Danger of death by inhalation.

H332 Harmful by inhalation.

H334 May cause allergy, asthmatic symptoms or breathing difficulties if inhaled.

H335 May cause respiratory tract irritation.

H412 Harmful to aquatic organisms, causes long-term adverse effects.

EUH204 Contains isocyanates. May cause allergic reactions.

### Classification used and method for establishing the classification of mixtures in accordance with Regulation (EC) 1272/2008 [CLP] :

Acute Tox. 4 (inhalation) H332 Expert judgement

Skin irritation. 2	H315	Concentration limits
Eye Dam. 1	H318	Concentration limits
Skin Sens. 1	H317	Concentration limits
STOT SE 3	H335	Concentration limits

**■ Latest changes**

This information sheet has been checked in all its parts in accordance with regulation 2020/878. Classification and procedure used to derive the classification of mixtures in accordance with Regulation (EC) 1272/2008 [CLP].