

## Safety Data Sheet Performance Sealer Comp. B

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identification

Name: Performance Sealer Component B

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

Description / Use: Two-component, water-based varnish for resin, cement and micro-cement floors.

#### 1.3. details of the supplier of the safety data sheet:

edelundstein GmbH  
Einsteinstraße 12  
D-33104 Paderborn  
www.edel-und-stein.com  
info@edel-und-stein.com

#### 1.4. emergency telephone number:

+49 (0) 5254 - 9330731

### 2. IDENTIFICATION OF HAZARDS

#### 2.1 Classification of the substance or mixture:

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CPL) (and subsequent amendments and adaptations). Accordingly, the product is accompanied by a safety data sheet in accordance with the provisions of Regulation (EU) 2015/830. Any additional information on health and/or environmental hazards is provided under sections 11 and 12.

Hazard classification and hazard statement:

Acute toxicity, hazard category 4 H332Harmfulif swallowed.

Inhalation.

Specific target organ toxicity - single

Exposure, hazard category 3H335 May cause respiratory irritation.

Skin sensitisation, hazard category 1 H317 May cause allergic reactions.

Skin reactions  
cause.

Harmful to the aquatic environment, chronic toxicity,

Hazard category 3 H412 Harmful to

Aquatic organisms, with  
long-term effect.

## 2.2 Label elements

Hazard labelling according to EC Regulation 1272/2008 (CLP) and subsequent amendments and additions.

Hazard pictograms:



Signal words: Attention

Hazard statements:

<b>H332</b>	Harmful by inhalation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause allergic skin reactions.
<b>H412</b>	Harmful to aquatic organisms, with long lasting effects. Effect.
<b>EUH204</b>	Contains isocyanates. May cause allergic reactions cause.
<b>EUH208</b>	Contains: HEXAMETHYLENE-1,6 DIISOCYANATE May contain cause allergic reactions

Safety instructions:

<b>P261</b>	Avoid inhalation of dust / smoke / gas / mist / vapour / aerosol.
<b>P280</b>	Wear protective gloves.

**P312** If you feel unwell, call a POISON CENTRE / doctor /.  
**P362+P364** Remove contaminated clothing and wash before reuse.  
**P403+P233** Store in a well-ventilated place. Keep container tightly closed

Contains: ALIPHATIC POLYISOCYANATE  
 HEXAMETHYLENE-1,6-DIISOCYANATE HOMOPOLYMER  
 HYDROPHILIC ALIPHATIC POLYISOCYANATE BASED ON IPDI  
 HEXAMETHYLENE-1,6 DIISOCYANATE

VOC (Directive 2004/42/CE):

Two-component special lacquers.

VOC in g/l of the ready-to-use product:	111.09
VOC limit value:	140,00
Catalysed with:	500.00 % ESRE104A

### 2.3 Other hazards

Based on available data, the product does not contain PBT or vPvB levels greater than 0.1%.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. substances.

Information not relevant.

### 3.2 Mixtures.

Contains:

The full text of the hazard statements (H-phrases) is given in section 16 of the sheet.

Labelling. X= Conc. % Classification 1272/2008 (CLP).

#### ALIPHATIC POLYISOCYANATE

CAS 666723-27-9

20 ≤ x < 25

Acute tox. 4 H332, STOT SE 3 H335, Skin sens. 1 H317, chronically hazardous to water 3 H412

CE  
 INDEX

#### HEXAMETHYLENE -1,6- DIISOCYANATE HOMOPOLYMER

CAS 3779-63-3

$20 \leq x < 30$

Acute tox. 4 H332, STOT SE 3 H335, Skin sens. 1 H317

CE 223-242-0  
INDEX

**HYDROPHILIC ALIPHATIC POLYISOCYANATE BASED ON IPDI**

CAS 1574548-27-8

$9 \leq x < 20$

STOT SE 3 H335, skin sens. 1 H317, chronic Harmful to water 3 H412

CE  
INDEX

**HEXAMETHYLENE -1,6- DIISOCYANATE**

CAS 822-06-00 <  $x < 0.25$

Acute tox. 1 H330, Acute tox. 4 H302

Eye irrit. 2 H319, Skin irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317  
Note on classification according to Annex VI  
The CLP Regulation: 2

CE 212-485-8  
INDEX 615-011-00-1  
Reg. No. 01-2119457571-37-XXXX

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures:

**EYES:** Any contact lenses must be removed. Wash immediately and thoroughly with water for at least 15 minutes, opening the eyelids well. If the problem persists, consult a doctor.

**SKIN:** Take off soiled, soaked clothes. Take a shower immediately. A doctor should be consulted immediately. Wash contaminated clothing before reuse.

**Breathing in:** Carry the affected person outdoors. If breathing stops, apply artificial respiration. A doctor must be consulted immediately.

**INCLUSION:** A doctor must be consulted immediately. Do not induce vomiting. Do not administer any medicine that has not been prescribed by a doctor.

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

Specific information on symptoms and effects caused by the product is not known.

### 4.3. indication of any immediate medical treatment and special care that may be required:

Information not available.

## **5. FIREFIGHTING MEASURES**

### **5.1 Fire extinguishing agents:**

#### SUITABLE EXTINGUISHING AGENTS

The extinguishing agents should be of the usual type: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING AGENTS

None in particular.

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

#### HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE

Avoid inhalation of combustion products.

### **5.3 Note for firefighters:**

#### GENERAL INFORMATION

Use water jets to cool the containers to prevent decomposition of the product and the development of potentially hazardous substances. Always wear full fire protection equipment. Catch the extinguishing water so that it does not run off into the sewage system. Dispose of contaminated extinguishing water and fire residues in accordance with applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Normal firefighting clothing i.e. fire suit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with positive pressure self-contained breathing apparatus (BS EN 137).

## **6. MEASURES IN THE EVENT OF ACCIDENTAL RELEASE**

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

Block the leakage if there is no danger. Wear appropriate protective equipment (including personal protective equipment mentioned in section 8 of the safety data sheet) to avoid contamination of skin, eyes and personal clothing. This advice applies to both processing personnel and those involved in emergency response.

**6.2. Precautions for the environment:**

The product must not enter the sewage system or come into contact with surface water or groundwater.

**6.3 Methods and material for containment and cleaning:**

The spilled product must be sucked into a suitable container. The container to be used must be tested for compatibility with the product, whereby para. 10 is decisive. The residual product shall be absorbed with inert absorbent material. Ensure adequate ventilation of the affected area. Disposal of contaminated material must be carried out in accordance with the regulations under point 13.

**6.4 Reference to other sections:**

All information on personal protection and disposal can be found in sections 8 and 13.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

Keep away from heat, sparks and open flame; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate on the ground and catch fire if ignited, even at a distance, with the risk of re-ignition. Avoid the concentration of electrostatic charges. Do not eat, drink or smoke during use. Remove contaminated clothing and personal protective equipment before entering areas where food will be eaten. Avoid leakage of the product into the environment.

**7.2. conditions for safe storage, including any incompatibilities:**

Store only in the original container. Store in a well-ventilated place, away from heat sources, open flames and sparks and other ignition sources. Keep container away from incompatible materials, see section 10 for details.

**7.3 Specific end use(s):**

Information not available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT**

## 8.1 Control parameters:

### Regulatory references:

DEU	Germany	TRGS 900 (version 31.1.2018 ber.) - List of occupational exposure limit values and short-term values
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
FRA	France	JORF n°0109 of 10 May 2012 page 8773 text n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
NOR	Norge	Veiledning om Administrative normer for forurensning i arbeidssatmosfaere
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
TLV-ACGIH	ACGIH 2018	

BUTYLGLYKOL Threshold limit value					
Type	State	TWA/8h mg/m <sup>3</sup>	ppm	STEL/15min mg/m <sup>3</sup>	ppm
MAK	DEU		0,005		0,005
VLA	ESP		0,005		
VLEP	FRA	0,075		0,15	
WEL	GBR	0,02		0,07	
TLV	NOR		0,005		0,01
MAK	SWE		0,005		
TLV-ACGIH			0,005		

### Legend:

((C) = CEILING; INHALB = Inhalable fraction; EINATB = Inhalable fraction; THORXG = Thoracic fraction.

VND = Identified hazard but no DNEL/PNEC available; NEA = No suspension foreseen; NPI = No identified hazard.

TLV of the solution mixture: 97 mg/m<sup>3</sup>

## 8.2 Exposure controls and monitoring:

Considering that appropriate protective measures should always take precedence over personal protective clothing, ensure that the workplace is well ventilated by effective local exhaust ventilation. For the selection of personal protective equipment, the trusted chemical manufacturers may need to be consulted. Personal protective equipment should be CE marked to indicate its suitability for the applicable regulations. Emergency stop showers with face-eye-rinsing are to be provided.

#### HAND PROTECTION

The hands must be protected with category III work gloves (ref. standard EN 374). For the final choice of material for the work gloves, the following aspects must be included: Compatibility, degradation, breaking time and permeability. In the case of preparations, the work glove resistance to chemical agents must be tested before use, as it is unpredictable. Glove wear time is conditioned by exposure time and modes of use.

#### SKIN PROTECTION

Work clothes with long sleeves and accident protection shoes of category I must be worn (see Regulation 89/688/EEC and standard EN ISO 20344). After taking off the protective clothing, one must wash with soap and water.

#### EYE PROTECTION

The use of penetration-proof goggles is recommended (ref. standard EN 166).

#### ATEM PROTECTION

If the threshold value (e.g. TLV-TWA) of the substance or one or more substances contained in the product is exceeded, it is advisable to wear a mask with a type A filter, the class of which (1, 2 or 3) should be selected according to the highest concentration used. (Ref. standard EN 14387). In the presence of gases or vapours of a different nature and/or gases or vapours containing particles (aerosol, smoke, mist, etc.), use combined filters. If the technical measures taken are not sufficient to reduce the exposure of the worker to the threshold values considered, the use of respiratory protection devices is necessary. The protection provided by the mask is in any case limited. If the substance under consideration is odourless or its odour threshold exceeds the corresponding TLV-TWA, or in case of emergency, an open-circuit self-operated compressed air respirator (ref. standard EN137) or an external air intake respirator (ref. standard EN138) must be worn. For the correct selection of the respiratory protective device, refer to standard EN 529.

#### POST-TESTING OF ENVIRONMENTAL EXPOSURE.

Emissions from manufacturing processes, including those from ventilation equipment, should be checked for compliance with environmental legislation.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. information on basic physical and chemical properties:

PHYSICAL STATE	Liquid
COLOUR	Transparent
SMELL	Typical
ODOUR THRESHOLD	Not available
PH-VALUE	Not available
MELTING POINT / FREEZING POINT	Not available
SITE BEGINNING	Not available
SIDE AREA	Not available
FLAMMPUNKT	> 61 °C.
EVAPORATION RATE	Not available
FLAMMABILITY OF SOLIDS AND GASES	Not available
LOWER INFLAMMATION LIMIT	Not available
UPPER INFLAMMATION LIMIT	Not available
LOWER EXPLOSION LIMIT	Not available
UPPER EXPLOSION LIMIT	Not available
STEAM PRINT	Not available
VAPOUR DENSITY	Not available
RELATIVE DENSITY	1.15 Kg/l
LOESLICHKEIT	Water - Glycols
DISTRIBUTION COEFFICIENT: N-OCTYL ALCOHOL/WATER	Not available
AUTO-IGNITION TEMPERATURE	Not available
DECOMPOSITION TEMPERATURE	Not available
VISCOSITAET	Not available
EXPLOSIVE PROPERTIES	Not available
OXIDISING PROPERTIES	Not available

### 9.2 Other information

VOC (Directive 2004/42/EC):	30.00 % - 345.00 g/litre
VOC (volatile carbon):	15.79 % - 181.59 g/litre
Appearance	Liquid

## 10. STABILITY AND REACTIVITY

LIPHATICALED POLYISOCYANATE

Exothermic reaction with amines and alcohols with water Gradual development CO2  
Pressure increase in closed containers; danger of bursting.

#### **10.1 Reactivity.**

No special reaction hazards with other substances under normal conditions of use.

#### **10.2 Chemical stability.**

The product is stable under normal conditions of use and storage.

#### **10.3 Possibility of hazardous reactions.**

Under normal conditions of use and storage, no hazardous reactions are foreseen.

#### **10.4 Conditions to avoid.**

None in particular. However, the usual caution with chemical products must be observed.

#### **10.5 Incompatible materials.**

Data not available.

#### **10.6 Hazardous decomposition products.**

Data not available.

### **11. TOXICOLOGICAL INFORMATION**

As no experimental toxicological data on the product are available, the possible health risks were evaluated on the properties of the substances contained according to the criteria of the reference standards for classification. For the evaluation of toxicological effects in case of product exposure, the concentrations of the individual pollutants possibly listed under para. 3 have to be considered.

#### **11.1 Information on toxicological effects**

##### Metabolism, toxicokinetics, mechanism of action and further information

Data not available.

##### Information on probable routes of exposure

Data not available.

Delayed and immediate effects as well as chronic effects after short or prolonged exposure.

Data not available.

Interactions

Data not available.

ACUTE TOXICITY

LC50 (Inhalative) of the mixture:	10 mg/l
LD50 (Oral) of the mixture:	Not classified (No relevant Ingredient)
LD50 (Dermal) of the mixture:	Not classified (No relevant Ingredients)

ALIPHATIC POLYISOCYANATE

LD50 (Oral)	> 5000 mg/kg OECD TG 423
LC50 (Inhalative)	0.39 mg/l / 4h Ratto femmina

HYDROPHILIC ALIPHATIC POLYISOCYANATE BASED ON IPDI

LD50 (Oral)	> 2000 mg/kg OECD TG 423
LD50 (Inhalative)	> 5 mg/ l/ 4h Guidelines 403 for the OECD test

ETCHING / IRRITANT EFFECT ON THE SKIN

Does not fall under the classification criteria of this hazard class

SEVERE EYE DAMAGE / IRRITATION

Does not fall under the classification criteria of this hazard class

SENSITISATION OF THE RESPIRATORY TRACT/SKIN

Sensitising to the skin

May cause allergic reactions.

Contains: HEXAMETHYLENE -1,6 DIISOCYANATE

GERM CELL MUTAGENICITY

Does not fall under the classification criteria of this hazard class

CARCINOGENICITY

Does not fall under the classification criteria of this hazard class

REPRODUCTIVE TOXICITY

Does not fall under the classification criteria of this hazard class

SPECIFIC TARGET ORGAN - SINGLE EXPOSURE TOXICITY

May irritate respiratory tract

SPECIFIC TARGET ORGAN REPEATED EXPOSURE TOXICITY

Does not fall under the classification criteria of this hazard class

RISK OF ASPIRATION

Does not fall under the classification criteria of this hazard class

**12. ECOLOGICAL INFORMATION**

As there are no specific data on the preparation, it must be used according to the best working experience. Make sure that the product does not get into the environment. In any case, do not allow the product to enter the soil or watercourses. Notify the relevant authorities if the product has entered watercourses or if the product has contaminated the soil or vegetation. Take measures to reduce the impact on groundwater as far as possible.

**12.1 Toxicity:**

ALIPHATIC POLYISOCYANATE

LC50 - fish	35.2 mg/l/96h Danio rerio (zebrafish)
EC50 - Crustaceans	> 100 mg/ l/ 48h Species test: Daphnia magna
EC50 - algae / aquatic plants	> 72 mg/ l/ 72h tested on algae

HYDROPHILIC ALIPHATIC POLYISOCYANATE BASED ON IPDI

LC50 - fish	35.2 mg/ l/ 96h Danio rerio (zebrafish)
EC50 - Algae / aquatic plants	72 mg/l / 72h OECD TG 201

**12.2 Persistence and degradability:**

ALIPHATIC POLYISOCYANATE

Quickly degradable

HYDROPHILIC ALIPHATISCHEDES POLYISOCYANATE BASED ON IPDI

NOT quickly degradable

**12.3 Bioaccumulative potential:**

Information not available

**12.4 Mobility in soil:**

Information not available

**12.5 Results of PBT and vPvB assessment:**

Based on available data, the product does not contain PBT or vPvB levels greater than 0.1%.

**12.6 Other adverse effects:**

Data not available.

**13. NOTES ON DISPOSAL**

**13.1 Waste treatment processes:**

Reuse if possible. Clean product residues are to be considered as non-hazardous special waste, which must be disposed of by an authorised disposal company in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recycled or disposed of in accordance with national waste management regulations.

**14. TRANSPORT INFORMATION**

The product is not dangerous according to the regulations in force in the field of road transport of dangerous goods (A.D.R.), by rail (RID), by sea (IMDG Code) and by air (IATA).

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard classes**

Not applicable

**14.4 Packing group**

Not applicable

**14.5 Environmental hazards**

Not applicable

**14.6 Special precautions for the user**

Not applicable

**14.7 Carriage in bulk in accordance with Annex II of the MARPOL Convention and the IBC Code.**

Information not applicable

**15. LEGAL PROVISIONS**

**15.1 Safety, health and environmental regulations/legislation specific to the substance or mixture:**

Seveso category - Directive 2012/18/EU: None

Restrictions on the product or substances according to Annex XVII Regulation (EC) 1907/2006 Product:

Item 3

Substances according to Candidate List (Art. 59 REACH)

Based on the available information, the product does not contain SVHC substances in percentages greater than 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None.

Substances subject to export notification (EC) Regulation 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Stockholm Convention-obligatory substances:

None

Preventive medical check-ups

No precautionary examinations are required when working with this product. This is only on condition that the results of the risk assessment prove that there is only a moderate risk to the safety and health of workers and that the measures provided for by Directive 98/24/EC are sufficient to limit the risk.

VOC (Directive 2004/42/CE):

Two-component special lacquers.

**15.2 Chemical safety assessment:**

No chemical assessment of the mixture and substances contained therein carried out.

**16. OTHER INFORMATION**

Text of the hazard statements (H) mentioned in section 2-3 of the sheet:

Acute Tox. 1	Acute toxicity, hazard category 1
Acute Tox. 4	Acute toxicity, hazard category 4
Eye Irrit. 2	Eye irritation, hazard category 2
Skin Irrit. 2	Skin sensitisation, hazard category 2
STOT SE 3	Specific target organ toxicity - single exposure, Hazard category 3
Resp. Sens. 1	Respiratory sensitisation, hazard category 1
Skin Sens. 1	Skin sensitisation, hazard category 1
Aquatic Chronic 3	Harmful to the aquatic environment, chronic toxicity, Hazard category 3
H330	Danger to life by inhalation.
H302	Harmful if swallowed.
H332	Harmful by inhalation.
H319	Causes severe eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H334	May cause allergy, asthma-like symptoms or breathing difficulties if inhaled. cause respiratory problems.
H317	May cause allergic skin reactions.
H412	Harmful to aquatic organisms, with long lasting effects.

EUH204 Effect.  
Contains isocyanates. May cause allergic reactions cause.

STATEMENT:

- ADR: European Agreement concerning the Carriage of Dangerous Goods by Road
- CAS NUMBER: Number of the Chemical Abstract Service
- CE50: Effective concentration in 50% of the population exposed to the test.
- CE NUMBER: ESIS identification number (European repository of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived no-effect level
- EmS: Emergency Schedule
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- IATA DGR: International Air Transport Association Regulation on the Carriage of Dangerous Goods.
- IC50: immobilisation concentration at 50% of the population subjected to the experiment
- IMDG: International Maritime Dangerous Goods Code
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in Annex VI to CLP.
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: occupational exposure level
- PBT: Persistent bioaccumulative and toxic according to REACH
- PEC: Predicted Environmental Concentration
- PEL - predictable exposure level
- PNEC: foreseeable no-effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- TLV: Threshold Limit Value
- TVL CEILING: this concentration must never be exceeded during work exposure.
- TWA STEL: short-term suspension limit
- TWA: medium-term weighted exposure limit
- VOC: volatile organic compound
- vPvP: very persistent and very bioaccumulative according to REACH
- WGK: Water hazard classes.

**GENERAL BIBLIOGRAPHY:**

1. regulation (EC) 1907/2006 of the European Parliament (REACH)
2. regulation (EC) 1272/2008 of the European Parliament (CLP)
3. regulation (EU) 790/2009 of the European Parliament (I Atp. CLP)
4. regulation (EU) 2015/830 of the European Parliament
5. regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
12. regulation (EU) 2016/1179 (IX Atp. CLP)
- 13 Regulation (EU) 2017/776 (X Atp. CLP)

**Note:** The information contained in this sheet is based on our knowledge at the time of the last version. The user must satisfy himself as to the suitability and completeness of the information in relation to the specific use of the product. Our company accepts no liability whatsoever for any suggested, improper, irresponsible, direct or indirect use of the product and recommends that those using our products satisfy themselves as to the reliability and completeness of the information in relation to the applications for which the product is intended. The information is the result of application knowledge and laboratory tests and is expressed as such. It does not constitute any obligation on our part, including any rights of third parties arising from damages of various kinds. Our company guarantees a consistent quality of its products: any liability established is limited to the exclusive value of our product. Given the impossibility of controlling the way in which our products are used in the various sites, our company cannot accept any responsibility with regard to the application and execution capabilities of the works.