

# Safety data sheet

according to Regulation (EC) No 1272/2008 (REACH)

edelPerformance Siegel Komponente B  
Status 08.2018

edelundstein<sup>+</sup>

FOR YOUR WALLS AND FLOORS

version: 1

## SECTION 1 Identification of the substance or mixture and of the company/undertaking

### 1.1 Product identifier

Description edelPerformance Siegel Komponente B

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

Description/Use

Catalyst for protective finish

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

Company name **edelundstein GmbH**  
Address **Einsteinstraße 12**  
Location and country **33104 Paderborn**  
**GERMANY**  
**Phone +49 5254 9330731**  
**fax +49 5254 9330733**

E-mail of the competent person, **info@edel-und-stein.com**  
who is responsible for the safety data sheet.

### 1.4 Emergency number

For urgent information please contact; Technical Information: Dr. Felix Ferlemann +49 170 / 7362924

## SECTION 2 Potential hazards

### 2.1 Classification of the substance or mixture.

The product is classified as dangerous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations). The product therefore requires a safety data sheet in accordance with the provisions of Regulation (EC) 1907/2006 and subsequent amendments. Any additional information relating to risks to human health and/or the environment is set out in sections 11 and 12 of this data sheet.

Classification and hazard statements:

Acute toxicity, category 4

H332 Harmful by inhalation

Respiratory sensitisation, category 1  
cause asthma-like symptoms or breathing difficulties

H334 May cause allergic or allergic reactions on inhalation

Skin sensitization, category 1

H317 May cause allergic skin reactions

### 2.2. labelling elements.

Hazard labelling according to Regulation (EC) No 1272/2008 (CLP) and subsequent amendments and adaptations  
Danger pictograms:



Warnings:

Danger

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FOR YOUR WALLS AND FLOORS

Danger warnings:

H317 - May cause allergic skin reactions  
H332 - Harmful by inhalation  
H334 - May cause allergic or asthmatic symptoms or breathing difficulties if inhaled

Safety Instructions:

P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P304+P340 - IF INHALED: Move person to fresh air  
and provide for unhindered breathing  
P312 - If you feel unwell Call a poison information centre / doctor / ...

Contains: POLY(HEXAMETHYLENE DIISOCYANATE)  
CAS. 28182-81-2

### 2.3. other risks.

On the basis of the available data, the product does not contain PBT and vPvB substances in amounts above 0,1 %.

## SECTION 3 Composition/information on ingredients

### 3.1. substances.

The full text of the hazard statements (H-phrases) can be found in section 16 of the safety data sheet.

### 3.2. mixtures.

Contains:

Identification	concentration % (C)	Classification 1272/2008 (CLP)
POLY(HEXAMETHYLENE DIISOCYANATE) CAS. 28182-81-2	100	Acute Tox. 4 H332 Resp Sens. 1 H334 Skin Sens. 1 H317
CE. -		
INDEX. -		

### 3.2. mixtures

Information not relevant.

## SECTION 4 First aid measures

### 4.1 Description of first aid measures.

EYES: Remove any contact lenses. Wash immediately and thoroughly with water for at least 15 minutes, opening the eyelids well. Consult a doctor if the problem persists.

SKIN: Dirty, soaked clothing must be removed. Wash yourself immediately and thoroughly with water. If irritation persists, consult a doctor. Contaminated clothing must be washed before reuse.

INHALING: The person concerned must be carried outside. If breathing is labored, consult a physician.

INGESTION: Consult a doctor immediately. Vomiting may only be induced on the doctor's orders. Nothing should be administered orally without the doctor's instructions or if the person concerned is unconscious.

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

For symptoms and effects of the substances contained, see chapter 11.

### 4.3. references to emergency medical assistance or special treatment.

Data not available.

## SECTION 5 Fire-fighting measures

### 5.1. extinguishing agents.

SUITABLE EXTINGUISHING AGENTS

The extinguishing agents are the usual ones: Carbon dioxide, foam, powder and water mist.

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**UNSUITABLE EXTINGUISHING AGENTS**  
No big deal.

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

#### RISKS DUE TO EXPOSURE TO FIRE

Avoid inhalation of the combustion products. The product is flammable and can form explosive air-gas mixtures in the presence of sufficient concentrations of suspended particles and a source of ignition. The fire may ignite or be caused by any  
The solid escaping from the container must be maintained when it reaches high temperatures or in contact with ignition sources.

### 5.3. instructions for fire fighting.

Cool the containers with water jets to prevent the product from disintegrating and forming potentially harmful substances. Always wear complete fire protection clothing. Collect extinguishing water, which must not be discharged into the sewerage system. Dispose of contaminated extinguishing water and fire residues in accordance with current regulations.

#### EQUIPMENT

Normal firefighting clothing, such as open-circuit compressed air breathing apparatus (EN 137), flameproof suit (EN 469), flameproof gloves (EN 659) and firefighting boots (HO A29 or A30).

## SECTION 6 Accidental release measures

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

Contain the leakage if there is no danger.

Wear appropriate protective equipment (including personal protective equipment as specified in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These instructions apply both to workers and to emergency procedures.

### 6.2 Environmental protection measures.

The product must be prevented from penetrating into waste water, surface water, ground water.

### 6.3. methods and materials for retention and cleaning.

Suck the spilled product into a suitable container. The container to be used must be tested for compatibility with the product, Section 10 being applicable. Absorb the residual product with absorbent inert material. Ensure adequate ventilation of the affected area. Check the material of the container for possible incompatibility according to section 7. Dispose of contaminated material in accordance with the provisions of section 13.

### 6.4. reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7 Handling and storage

### 7.1. protective measures for safe handling.

Handle the product after reading all other sections of this MSDS. Do not release the product into the environment. Do not eat, drink or smoke in the workplace. Remove contaminated clothing and protective equipment before entering areas where food is eaten.

### 7.2. conditions for safe storage, taking into account incompatibilities

#### Let us consider the applicability: TRGS 510.

The product must be stored in clearly labelled containers. The containers must be kept away from any incompatible materials, with reference to section 10.

### 7.3 Specific end uses.

Data not available.

## SECTION 8 Exposure controls/personal protection

### 8.1.parameters to be monitored

No data available.

# Safety data sheet

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FOR YOUR WALLS AND FLOORS

## 8.2 Exposure controls and monitoring.

In view of the fact that the use of appropriate technical measures should always take priority over personal protective equipment, good ventilation of the workplace must be ensured by effective local exhaust ventilation. Personal protective equipment must bear the CE mark to show that it complies with the applicable standards. Provide an emergency shower and eye rinsing facility.

**HAND PROTECTION:** Protect hands with category III gloves (see standard EN 374). The following aspects must be taken into account when making the final choice of material for working gloves: compatibility, degradation, breakthrough time and permeation. In the case of preparations, the resistance of the working gloves to chemicals must be tested before use, as it is not predictable. Gloves have a certain wear time, which depends on the duration and type of use.

**SKIN PROTECTION:** Wear long-sleeved work clothing and category II accident prevention footwear (see Directive 89/686/EEC and standard EN ISO 20344) Wash yourself with soap and water after taking off the protective clothing.

**EYE PROTECTION:** It is recommended to wear tight-fitting safety glasses (see standard EN 166).

**RESPIRATION PROTECTION:** If the threshold value (e.g. TLV-TWA) of one or more substances contained in the product is exceeded, it is recommended to wear a respiratory mask with a type B filter, the class (1, 2 or 3) of which must be selected according to the concentration limit (see standard EN 14387). If gases or vapours of other types and/or gases or vapours containing particles (aerosols, smoke, mist, etc.) are present, combined filters must be provided. Respiratory protection must be used if the technical measures taken are not sufficient to limit workers' exposure to the threshold value under consideration. However, the protection provided by masks is limited. If the substance in question is odourless or the odour perception threshold is above the relevant TLV-TWA, or in an emergency, wear open-circuit compressed air breathing apparatus (see standard EN 137) or breathing apparatus with an external air supply (see standard EN 138). For the correct choice of respirator please refer to standard EN 529.

**LIMITATION AND MONITORING OF THE ENVIRONMENTAL POSITION:** Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental legislation.

## SECTION 9 Physical and chemical properties

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

PHYSICAL STATE	Not available
COLOR	Not available
SMELL	Not available
ODOR THRESHOLD	Not available
pH value	Not available
MELTING OR FREEZING POINT	Not available
BOTTOM BOILING POINT	Not available
BOILING INTERVAL	Not available
FLAME POINT	> 60 °C
EVAPORATION RATE	Not available
FLAMMABILITY OF SOLIDS AND GAS	Not available
LOWER FLAMMABILITY LIMIT	Not available
UPPER FLAMMABILITY LIMIT	Not available
LOWER EXPLOSION LIMIT	Not available
UPPER EXPLOSION LIMIT	Not available
STEAM PRESSURE	Not available
STEAMPROOF	Not available
RELATIVE DENSITY	1,151 kg/l
SOLUBILITY	Not available
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not available
SELF-IGNITION TEMPERATURE	Not available
DECOMPOSITION TEMPERATURE	Not available
VISCOSITY	Not available
EXPLOSION PROPERTIES	Not available
OXIDATION PROPERTIES	Not available

### 9.2 Other information.

Molecular weight	168,190
VOC content (Directive 2004/42/	0
VOC (volatile carbon) :	0

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## SECTION 10 Stability and reactivity

### 10.1. Reactivity.

Under normal conditions of use, there are no particular dangers of reaction with other substances.

### 10.2 Chemical stability.

The product is stable under normal processing and storage conditions.

### 10.3. possibility of dangerous reactions.

Under normal conditions of use and storage no dangerous reactions are expected.

### 10.4 Conditions to be avoided.

Nothing special. However, the usual caution with chemical products should be observed.

### 10.5. incompatible materials.

Data not available.

### 10.6. hazardous decomposition products.

Data not available.

## SECTION 11 Toxicological information

### 11.1. information on toxicological effects.

Acute effects: The product is harmful by inhalation. Symptoms of exposure may be: burning and irritation of the eyes, mouth, nose and throat, coughing, difficulty breathing, dizziness, headache, nausea and vomiting. In the most serious cases, inhalation of the product may cause inflammation and oedema of the larynx and bronchi, chemical pneumonia and pulmonary oedema.

Inhalation of the product leads to sensitisation, which can lead to a number of inflammatory events, most of which are obstructive and affect the respiratory organs. Sometimes the sensitisation phenomena are associated with rhinitis and asthma, which manifest themselves in the patient. The resulting damage to the respiratory system depends on the dose of the inhaled product and therefore on the concentration of the product in the working environment and the exposure time. Contact of the product with the skin causes sensitization (contact dermatitis). Dermatitis develops after an inflammation of the skin, which starts in those areas of the skin that repeatedly come into contact with the sensitizer. Skin lesions may include erythema, oedema, papules, vesicles, pustules, scales, fissures and exudative phenomena that vary according to the stage of the disease and the areas affected. In the acute phase, erythema, oedema and exudation predominate. In chronic phases, dandruff, dryness, fissures and thickening of the skin predominate.

## SECTION 12 Environmental information

Use in accordance with good working practice and avoid release of the product into the environment. Notify the competent authorities if the product enters watercourses or drains or has contaminated soil or vegetation.

### 12.1. Toxicity.

Data not available.

### 12.2. persistence and degradability.

POLY (HEXAMETHYLENE DIISOCYANATE)

Water solubility.

mg/l 0,1 - 100

Biodegradability:

Data not available

### 12.3. Bioaccumulation potential.

POLY (HEXAMETHYLENE DIISOCYANATE)

Partition coefficient: n-octanol/water.

5,54

BCF.

367,7

### 12.4. mobility in the soil.

POLY (HEXAMETHYLENE DIISOCYANATE)

Partition coefficient: Soil/water

7,3

### 12.5 Results of the PBT and vPvB assessment.

On the basis of the available data, the product does not contain PBT and vPvB substances in amounts above 0,1 %.

# Safety data sheet

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**12.6. other adverse effects.**  
Data not available.

### SECTION 13. disposal instructions

#### 13.1. waste treatment procedures.

Reuse if possible. Product residues are to be considered hazardous hazardous waste. The hazardousness of waste containing any part of this product must be assessed in accordance with applicable legislation. Disposal must be carried out by a waste management approved company in accordance with national and, where applicable, local regulations.

#### CONTAMINATED PACKAGING MATERIAL

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

### SECTION 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.), rail transport (RID), sea transport (IMDG Code) and air transport (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 users Not applicable.

14.7. carriage in bulk in accordance with Annex II of MARPOL 73/78 and the IBC Code  
Information not relevant.

### SECTION 15 Legislation

#### 15.1. safety, health and environmental protection requirements/specific legislation for the substance or mixture.

Seveso category. None.

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

Product Points 3

Substances according to Candidate List (Article 59 REACH).

None

Substances subject to authorisation (Annex XIV REACH).

None

Substances subject to export notification (EC) Regulation 689/2008:

None.

Rotterdam Convention substances:

None

Substances subject to the Stockholm Convention:

None

#### Health checks

Workers exposed to this hazardous chemical must undergo health surveillance in accordance with Article 41 of Legislative Decree D.Lgs. 81 of 9 April 2008, unless the risk to the worker's health and safety has been classified as irrelevant in accordance with Article 224(2).

# Safety data sheet

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edelPerformance Siegel Komponente B  
Status 08.2018

edelundstein<sup>+</sup>

FOR YOUR WALLS AND FLOORS

Legislative Decree D.Lgs. 152/2006 and subsequent amendments.  
emissions according to Part V Annex I: TAB. D Class 1 100,00

### 15.2 Chemical Safety Assessment.

No chemical evaluation of the mixture and substances contained in it.

## SECTION 16 Other information

Text of the hazard statements (H phrases) mentioned in sections 2-3 of the data sheet:

Acute Tox. 4 Acute toxicity, category 4

Resp. sens. 1 Resp. sensitization of the respiratory tract, category 1

Skin Sens. 1 Sensitization of the skin, category 1

H317 - May cause allergic skin reactions

H332 - Harmful by inhalation

H334 - May cause allergic or asthmatic symptoms or breathing difficulties if inhaled

### LEGEND:

- ADR: European Agreement on the Transport of Dangerous Goods by Road
- CAS NUMBER: Number of the Chemical Abstract Service
- CE50: Effective concentration in 50 % of the test population
- CE NUMBER: ESIS identification number (EC substance inventory)
- CLP: Regulation (EC) No 1272/2008
- DNEL: Limit below which the substance has no effect
- EmS: Emergency Schedule
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- IATA DGR: Regulations for the transport of dangerous goods by air of the International Air Transport Association IATA
- IC50: inhibition concentration for 50 % of the test population
- IMDG: International Dangerous Goods Marking for the Transport of Dangerous Goods by Sea
- IMO: International Maritime Organization
- INDEX NUMBER: Index number in Annex VI CLP
- LC50: lethal concentration 50
- LD50: lethal dose 50
- OEL: Occupational exposure limit value
- PBT: Persistent, bioaccumulative and toxic under REACH
- PEC: Estimated concentration in the environment
- PEL: Permissible exposure limit values
- PNEC: Estimated non-effect concentration
- REACH: Regulation (EC) No 1907/2006
- RID: Regulations concerning the international carriage of dangerous goods by rail
- TLV: threshold limit value
- TLV CEILING: concentration that must never be exceeded in workplace exposure
- TWA STEL: Short Term Exposure Limit
- TWA: Time-Weighted Average Exposure Limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany)

Most important bibliographic sources

1st Regulation (EU) No 1907/2006 of the European Parliament (REACH)

EN-MSDS-4.7 edelPerformance Siegel Komponente B

Page 7 of 8

# Safety data sheet

## according to Regulation (EC) No 1272/2008 (REACH)

edelPerformance Siegel Komponente B  
Status 08.2018

edelundstein<sup>+</sup>

FOR YOUR WALLS AND FLOORS

- 2nd Regulation (EU) No 1272/2008 of the European Parliament (CLP)
- 3rd Regulation (EC) No 790/2009 of the European Parliament (1st ATP CLP)
- (4) Regulation (EU) No 453/2010 of the European Parliament
- 5) Regulation (EC) No 286/2011 of the European Parliament (2nd ATP CLP)
- 6th Regulation (EC) No 618/2012 of the European Parliament (3rd ATP CLP)
- 7th Regulation (EC) No 487/2013 of the European Parliament (4th ATP CLP)
- 8) Regulation (EC) No 944/2013 of the European Parliament (5th ATP CLP)
- 9th Regulation (EC) No 605/2014 of the European Parliament (6th ATP CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- Website of the European Chemicals Agency ECHA

**Note:** The information contained in this data sheet is based on the state of our knowledge at the time of the latest version. It is the responsibility of the user to check the suitability and completeness of this information for his specific application.

Our company accepts no liability whatsoever for the recommended, improper, irresponsible, direct or indirect use of the product and advises those who use our products to check for themselves the reliability and completeness of the information in relation to the applications for which they determine the product. The information is based on practical knowledge and laboratory tests and is reproduced as such. They do not represent any obligation on our part, including with regard to any rights of third parties resulting from damages of various kinds. Our company guarantees consistent quality for its products: any liability claims established are limited exclusively to the value of our product. In view of the impossibility of controlling the use of our products on all the various construction sites, our company cannot accept any liability for the suitability and execution of the work.