

# Safety data sheet

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

edelOutdoor Sealer Comp. B  
Status 04.2024

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 edelOutdoor Sealer Comp. B

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

#### Description/Use

Aliphatic polyurethane catalyst

### 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 hazardous in compliance with the instructions of Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet compliant with the requirements of Regulation (EU) 1907/2006 and subsequent amendments. Any additional information regarding health and/or environmental risk is provided in sect. 11 and 12 of this data sheet.

Classification and hazard statements:

|   |  |
|---|--|
| Acute toxicity, category 4  | H332 Harmful by inhalation             |
| Specific toxicity for target organs – single exposure, category 3 | H335 May cause respiratory irritation. |
| 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**

Hazard Statements:

|        |   |
|--------|---|
| H332   | Harmful if inhaled.   |
| H335   | May cause respiratory irritation.   |
| H317   | May cause an allergic skin reaction.  |
| EUH204 | Contains isocyanates. May produce an allergic reaction.                     |
| EUH208 | Contains: HEXAMETHYLENE-1,6-DIISOCYANATE, May produce an allergic reaction. |

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### Precautionary statements:

P261 Do not inhale dust / fumes / gases / fog / vapours / aerosols.  
P280 Wear protective gloves.  
P312 Call a POISON CENTRE / doctor / .  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

### 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.

Information not pertinent.

### 3.2. mixtures.

Contains:

| Designation:  | Concentration % (x) | 1272/2008 Classification (CLP)   |
|---|---------------------|--|
| 1,6-HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER<br>CAS 28182-81-2<br>CE 500-060-2<br>INDEX<br>Nr. Reg. 01-2119485796-17-XXXX | 82 ≤ x < 86         | Acute Tox. 4 H332, STOT SE 3 H335, Skin Sens. 1 H317   |
| HYDROPHILIC ALIPHATIC POLYISOCYANATE<br>CAS 666723-27-9<br>CE<br>INDEX  | 15 ≤ x < 16,5       | Acute Tox. 3 H331, STOT SE 3 H335, Skin Sens. 1 H317,<br>Aquatic Chronic 3 H412  |
| 1,6-HEXAMETHYLENE DIISOCYANATE<br>CAS 822-06-0<br>CE 212-485-8<br>INDEX 615-011-00-1<br>Nr. Reg.01-2119457571-37-XXXX   | 0,4 ≤ x < 0,45      | Acute Tox. 2 H330, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT<br>SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Nota 2 |

The full text of the hazard statements (H) is provided in section 16 of the data sheet.

## SECTION 4 First aid measures

### 4.1 Description of first aid measures.

EYES: Remove any contact lenses. Immediately wash with copious amounts of water for at least 15 minutes, opening eyelids fully. Consult a doctor if the problem persists.

SKIN: Remove any contaminated clothing. Take a shower immediately. Seek medical advice immediately. Wash contaminated clothing prior to reuse.

INHALATION: Move the victim to the open air. If the victim stops breathing, administer artificial respiration. Seek medical advice immediately.

INGESTION: Seek medical advice immediately. Do not induce vomiting. Do not administer anything that is not explicitly authorised by the doctor.

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

Specific information on symptoms and effects caused by the product are unknown..

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

Data not available.

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### SECTION 5 Fire-fighting measures

#### 5.1. extinguishing agents.

SUITABLE EXTINGUISHING MEDIA

Use traditional extinguishing media: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING MEDIA: None in particular

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

HAZARDS DUE TO EXPLOSION IN THE EVENT OF FIRE

Do not breath combustion products.

#### 5.3. instructions for fire fighting.

GENERAL INFORMATION

Cool the containers with water jets in order to avoid the decomposition of the product and the development of substances potentially hazardous for health. Always wear full fire protection equipment. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT

Normal fire-fighting clothing, such as a self-contained open-circuit compressed air respirator (EN 137), flame-retardant suit (EN 469), flame-retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

### SECTION 6 Accidental release measures

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

Block the leak if there is no hazard. Wear suitable protective devices (including personal protection devices indicated in Section 8 of the safety data sheet) in order to prevent contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2 Environmental protection measures.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Vacuum the leaked product into a suitable container. If the product is flammable, use explosion proof equipment. Evaluate the compatibility of the container to be used with the product by checking Section 10. Absorb any remaining material using inert absorbent material. Provide sufficient ventilation of the area of the leak. Contaminated material should be disposed of in compliance with the provisions set forth in 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 checking all the other sections of this safety data sheet. Avoid the dispersion of the product in the environment. Never eat, drink or smoke during use. Remove contaminated clothing and protective equipment before accessing the eating area.

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

Store only in the original container. Keep the containers closed, in a well-ventilated area, away from direct sunlight. Keep containers away from any incompatible materials; see Section 10.

#### 7.3 Specific end uses.

Data not available.

### SECTION 8 Exposure controls/personal protection

#### 8.1.parameters to be monitored

Regulatory references:

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|     |                 |  |
|-----|-----------------|--|
| BGR | България        | МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г |
| CZE | Česká Republika | Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci                               |
| DEU | Deutschland     | MAK-und BAT-Werte-Liste 2012   |
| ESP | España          | INSHT - Límites de exposición profesional para agentes químicos en España 2015                                   |
| FRA | France          | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102  |
| GBR | United Kingdom  | EH40/2005 Workplace exposure limits  |
| POL | Polska          | ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r                                      |
| SVK | Slovensko       | NARIADENIE VLÁDY Slovenskej republiky z 20. júna 2007  |
|     | TLV-ACGIH       | ACGIH 2016   |

## 1,6-HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER

| Concentration expected to not have effects on the environment - PNEC |        |       |
|--|--------|-------|
| Reference value in freshwater  | 0.127  | mg/l  |
| Reference value in salt water  | 0.0127 | mg/l  |
| Reference value for sediments in freshwater                          | 266700 | mg/kg |
| Reference value for sediments in salt water                          | 26670  | mg/kg |
| Reference value for water, intermittent release                      | 1.27   | mg/l  |
| Reference value for STP micro-organisms                              | 38.3   | mg/l  |
| Reference value for the land compartment                             | 53182  | mg/kg |

### Health - Derived no-effect level - DNEL / DMEL

| Exposure life | Effects on consumers |                      |                 |                        | Effects on workers  |                      |                       |                        |
|---------------|----------------------|----------------------|-----------------|------------------------|---------------------|----------------------|-----------------------|------------------------|
|               | Locally acute        | Systematically acute | Locally chronic | Systematically chronic | Locally acute       | Systematically acute | Locally chronic       | Systematically chronic |
| Inhalation    |                      |                      |                 |                        | 1 mg/m <sup>3</sup> |                      | 0.5 mg/m <sup>3</sup> |                        |

## HEXAMETHYLENE-1,6-DIISOCYANATE

### Threshold limit value

| Type      | Status | TWA/8h<br>mg/m <sup>3</sup> | Ppm   | STEL/15min<br>mg/m <sup>3</sup> | ppm   |
|-----------|--------|-----------------------------|-------|---------------------------------|-------|
| TLV       | BGR    | 0.1                         |       |                                 |       |
| TLV       | CZE    | 0.035                       |       | 0.07                            |       |
| AGW       | DEU    | 0.035                       | 0.005 | 0.035                           | 0.005 |
| MAK       | DEU    | 0.035                       | 0.005 | 0.035                           | 0.005 |
| VLA       | ESP    | 0.035                       | 0.005 |                                 |       |
| VLEP      | FRA    | 0.075                       | 0.01  | 0.15                            | 0.02  |
| WEL       | GBR    | 0.02                        |       | 0.07                            |       |
| NDS       | POL    | 0.04                        |       | 0.08                            |       |
| NPHV      | SVK    | 0.035                       | 0.005 | 0.035                           |       |
| TLV-ACGIH |        | 0.034                       | 0.005 |                                 |       |

| Concentration expected to not have effects on the environment - PNEC |          |       |
|--|----------|-------|
| Reference value in freshwater  | 0.0774   | mg/l  |
| Reference value in salt water  | 0.00774  | mg/l  |
| Reference value for sediments in freshwater                          | 0.01334  | mg/kg |
| Reference value for sediments in salt water                          | 0.001334 | mg/kg |
| Reference value for water, intermittent release                      | 0.774    | mg/l  |
| Reference value for STP micro-organisms                              | 8.42     | mg/l  |
| Reference value for the land compartment                             | 0.0026   | mg/kg |

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### Health - Derived no-effect level - DNEL / DMEL

| Exposure life | Effects on consumers |                      |                 |                        | Effects on workers     |                        |                         |                         |
|---------------|----------------------|----------------------|-----------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|
|               | Locally acute        | Systematically acute | Locally chronic | Systematically chronic | Locally acute          | Systematically acute   | Locally chronic         | Systematically chronic  |
| Inhalation    |                      |                      |                 |                        | 0.07 mg/m <sup>3</sup> | 0.07 mg/m <sup>3</sup> | 0.035 mg/m <sup>3</sup> | 0.035 mg/m <sup>3</sup> |

#### Key:

(C) = CEILING; INALAB = Inhalable fraction;  
RESPIR = Respirable fraction; TORAC = Thoracic fraction.  
VND = hazard identified but no DNEL/PNEC available;  
NEA = no exposure expected; NPI = no hazard identified.  
NPI = no hazard

TLV of the solvent mixture: 0.03 mg/m<sup>3</sup>

### 8.2 Exposure controls and monitoring.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

In order to choose the personal protective equipment, we recommend you to ask for advice from your suppliers of chemicals. Personal protective equipment must be EC marked to prove their compliance with current regulations. Provide an emergency shower with eye/face wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (ref. Standard EN374). The following should be considered when choosing work gloves material: compatibility, degradation, failure time and permeability. For preparations, the work gloves resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and Standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see Standard EN 166).

#### RESPIRATORY PROTECTION

In the event the threshold level is exceeded (e.g. TLV-TWA) for the substance or one or more of the substances present in the product, it is recommended to wear a mask with B type filter for class (1, 2, or 3), and it must be chosen according to the concentration threshold of use (ref. Standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the considered threshold values. The protection provided by masks is in any case limited. If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (ref. Standard EN 137) or external air-intake breathing apparatus (ref. Standard EN138). For a correct choice of respiratory protection device, see Standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9 Physical and chemical properties

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

|                                |               |
|--------------------------------|---------------|
| PHYSICAL STATE                 | Liquid        |
| COLOUR                         | Not available |
| ODOUR                          | Not available |
| ODOUR THRESHOLD                | Not available |
| pH                             | Not available |
| MELTING POINT / FREEZING POINT | Not available |
| INITIAL BOILING POINT          | Not available |
| BOILING RANGE                  | Not available |
| FLASH POINT                    | > 60 °C       |
| EVAPORATION RATE               | Not available |
| FLAMMABILITY (SOLID, GAS)      | Not available |
| LOWER FLAMMABILITY LIMIT       | Not available |
| UPPER FLAMMABILITY LIMIT       | Not available |
| LOWER EXPLOSIVE LIMIT          | Not available |

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|  |                                     |
|--|-------------------------------------|
| UPPER EXPLOSIVE LIMIT                  | Not available                       |
| VAPOUR PRESSURE                        | Not available                       |
| VAPOUR DENSITY                         | Not available                       |
| RELATIVE DENSITY                       | 1.15                                |
| SOLUBILITY                             | Not available                       |
| PARTITION COEFFICIENT: N-OCTANOL/WATER | Not available                       |
| AUTO-IGNITION TEMPERATURE              | Not available                       |
| DECOMPOSITION TEMPERATURE              | Not available                       |
| VISCOSITY                              | > 20.5 mm <sup>2</sup> /sec (40 °C) |
| EXPLOSIVE PROPERTIES                   | Not available                       |
| OXIDISING PROPERTIES                   | Not available                       |

### 9.2 Other information.

|                                |         |
|--------------------------------|---------|
| TOTAL SOLIDS (250 °C / 482 °F) | 99.60 % |
| VOC (Directive 2010/75/EC)     | 0       |
| VOC (volatile carbon)          | 0       |

## SECTION 10 Stability and reactivity

### 10.1. Reactivity.

There is no particular danger of reaction with other substances under normal conditions of use.

#### HEXAMETHYLENE-1,6-DIISOCYANATE

It decomposes at 255 °C/491 °F. It polymerizes at temperatures greater than 200 °C/392 °F.

### 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 hazardous reactions are expected.

#### HEXAMETHYLENE-1,6-DIISOCYANATE

May form explosive mixtures with: alcohols, bases. May violently react with: alcohols, amines, strong bases, oxidizing agents, strong acids, water.

### 10.4 Conditions to be avoided.

None in particular. In any case, take all usual care when handling chemical products.

#### HEXAMETHYLENE-1,6-DIISOCYANATE

Avoid exposure to: high temperatures, moisture.

### 10.5. incompatible materials.

#### HEXAMETHYLENE-1,6-DIISOCYANATE

Incompatible with: alcohols, carboxylic acids, amines, strong bases.

### 10.6. hazardous decomposition products.

#### HEXAMETHYLENE-1,6-DIISOCYANATE

May develop: nitrogen oxides, cyanhydric acid.

## SECTION 11 Toxicological information

In the absence of experimental toxicological data on the product itself, any hazards posed by the product to health have been evaluated based on the properties of the contained substances, according to the criteria defined by the classification reference standards.

Therefore, consider the concentrations of the individual substances indicated in Section 3 to evaluate the toxicological effects due to exposure of the product.

### 11.1. information on toxicological effects.

Metabolism, toxicokinetics, mechanism of action and other information  
Information not available.

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Information on possible exposure scenarios  
Information not available.

Immediate, delayed and chronic effects due to short and long-term exposure  
Information not available.

Interactive effects  
Information not available.

### ACUTE TOXICITY:

|  |  |
|--|--|
| LC50 (Inhalation - vapours) of the mixture:        | > 20 mg/l                              |
| LC50 (Inhalation - spray / powder) of the mixture: | 1.1 mg/l                               |
| LD50 (Oral) of the mixture::                       | Not classified (no relevant component) |
| LD50 (Skin) of the mixture:                        | Not classified (no relevant component) |

### HEXAMETHYLENE-1,6-DIISOCYANATE

LC50 (Inhalation) 0.124 mg/l/4h Rat

### SKIN CORROSION / SKIN IRRITATION

It does not meet the classification criteria for this hazard class.

### SEVERE EYE DAMAGE / EYE IRRITATION

It does not meet the classification criteria for this hazard class.

### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

### Contains:

HEXAMETHYLENE-1,6-DIISOCYANATE

### GERM CELLS MUTAGENICITY

It does not meet the classification criteria for this hazard class.

### CARCINOGENICITY

It does not meet the classification criteria for this hazard class.

### REPRODUCTIVE TOXICITY

It does not meet the classification criteria for this hazard class.

### SPECIFIC TOXICITY FOR TARGET ORGANS (STOT) - SINGLE EXPOSURE,

It does not meet the classification criteria for this hazard class.

### SPECIFIC TOXICITY FOR TARGET ORGANS (STOT) - REPEATED EXPOSURE

It does not meet the classification criteria for this hazard class.

### ASPIRATION HAZARD

It does not meet the classification criteria for this hazard class Viscosity: >20.5 mm<sup>2</sup>/sec (40 °C).

## SECTION 12 Environmental information

As no specific data is available for the preparation, adopt good working practices and do not discharge the product into the environment. Avoid discharging the product into the ground or in waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Undertake measures to minimize any effect on ground water.

### 12.1. Toxicity.

Data not available.

### 12.2. persistence and degradability.

HEXAMETHYLENE-1,6-DIISOCYANATE

NOT Rapidly biodegradable.

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### 12.3. Bioaccumulation potential.

HEXAMETHYLENE-1,6-DIISOCYANATE  
Partition coefficient: n-octanol/water 3.2  
BCF 3.2

### 12.4. mobility in the soil.

Information not available.

### 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 %.

### 12.6. other adverse effects.

Data not available.

## SECTION 13. disposal instructions

### 13.1. waste treatment procedures.

Reuse, when possible. As-is product residues is to be considered non-hazardous special waste.  
Disposal must be performed through an authorised waste management company, in compliance with national and local regulations.  
CONTAMINATED PACKAGING  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. transport information

The product is not considered hazardous in compliance with the current regulations on transportation of hazardous materials on roadways (ADR), by rail (RID), by sea (IMDG Code) or 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 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 - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation EC 1907/2006:  
Point. 3

Substance in Candidate List (Art. 59 REACH):

On the basis of available data, the product does not contain any SVHC in percentage greater than 0.1%.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Reg. (EC) 649/2012:

None

Substances subject to the Rotterdam Convention:

None



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Substances subject to the Stockholm Convention:  
None

Healthcare controls:

Workers exposed to this chemical agent hazardous to their health must undergo health monitoring in compliance with dispositions provided by Art. 41 of Italian Legislative Decree 81 dated 9 April 2008, unless the risk for health and safety of the worker is assessed to be irrelevant, according to Art. 224 par. 2.

Italian Legislative Decree 152/2006 and subsequent amendments:

Emissions according to Part V Annex I:  
TAB. D Class 1 00.40 %

### 15.2 Chemical Safety Assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

## SECTION 16 Other information

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

|                   |   |
|-------------------|---|
| Acute Tox. 2      | Acute toxicity, category 2  |
| Acute Tox. 3      | Acute toxicity, category 3  |
| Acute Tox. 4      | Acute toxicity, category 4  |
| Eye Irrit. 2      | Eye irritation, category 2  |
| Skin Irrit. 2     | Skin irritation, category 2                                       |
| STOT SE 3         | Specific toxicity for target organs - single exposure, category 3 |
| Resp. Sens. 1     | Respiratory sensitization, category 1                             |
| Skin Sens. 1      | Skin sensitization, category 1                                    |
| Aquatic Chronic 3 | Hazardous to aquatic environments, chronic toxicity, category 3   |

|        |  |
|--------|--|
| H330   | Lethal if inhaled.   |
| H331   | Toxic if inhaled.  |
| H332   | Harmful if inhaled.  |
| H319   | Causes serious eye irritation.   |
| H315   | Causes skin irritation.  |
| H335   | May cause respiratory irritation.  |
| H334   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317   | May cause an allergic skin reaction.                                       |
| H412   | Toxic to aquatic life with long-lasting effects.                           |
| EUH204 | Contains isocyanates. May produce an allergic reaction.                    |

Decodification of uses descriptors:

|      |    |   |
|------|----|---|
| AC   | 4  | Stone, plaster, cement, glass and ceramic items |
| PC   | 9a | Coatings and paints, thinners, paint removers   |
| PROC | 10 | Apply with rolls or brushes                     |
| PROC | 7  | Industrial spray application                    |
| SU   | 19 | Constructions                                   |

KEY:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- EC NUMBER: Identification number in ESIS (European Substances Information System)
- CLP: Regulation EC 1272/2008
- DNEL: Derived no effect level
- EmS: Emergency Schedule
- GHS: Global harmonized system for classification and labelling of chemical products
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization concentration for 50% of the test population
- IMDG: International maritime dangerous goods code - IMO: International Maritime Organization
- INDEX NUMBER: Index number of CLP Annex VI
- LC50: 50% of lethal concentration
- LD50: 50% lethal dose

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- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative, and toxic according to REACH
- PEC: Predicted environmental concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation EC 1907/2006
- RID: Regulation concerning the international carriage of dangerous goods by rail
- TLV: Threshold limit value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational 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)

### GENERAL BIBLIOGRAPHY:

1. Regulation (EU) 1907/2006 of the European Parliament (REACH)
2. Regulation (EU) 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)

- 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
- IFA GESTIS Website
- ECHA website
- Database of SDS templates for chemical substances - Ministry of Health and National Institute of Health

### Note for user:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must never be interpreted as a guarantee of any specific product property.

Since the use of the product does not fall within our direct control, the user is required to observe health and safety current laws and current regulations under their own responsibility. The manufacturer is not responsible for improper use. Provide adequate training to the personnel responsible for using chemical products.