

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER  
**Other means of identification:**  
**UFI:** AS99-5199-G001-C0A3
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Hardener for coatings  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
BOLL Wojciech Dalewski Spółka Jawna  
ul. Chemiczna 3  
65-713 Zielona Góra - Polska  
Phone: 68 451 99 99 - Fax: 68 451 99 00  
huszcza@boll.pl  
<https://www.boll.pl>
- 1.4 Emergency telephone number:**

**SECTION 2: HAZARDS IDENTIFICATION \*\***

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Acute Tox. 4: Acute toxicity, Category 4, H312+H332  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Flam. Liq. 3: Flammable liquids, Category 3, H226  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1: Sensitisation, skin, Category 1, H317  
STOT RE 2: Specific target organ toxicity — Repeated exposure, Hazard Category 2, H373  
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

**2.2 Label elements:****CLP Regulation (EC) No 1272/2008:**

Danger

**Hazard statements:**

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
Eye Dam. 1: H318 - Causes serious eye damage.  
Flam. Liq. 3: H226 - Flammable liquid and vapour.  
Skin Irrit. 2: H315 - Causes skin irritation.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure.  
STOT SE 3: H335 - May cause respiratory irritation.

**Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260: Do not breathe vapours  
P264: Wash hands thoroughly after handling  
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a poison center/doctor.  
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 2: HAZARDS IDENTIFICATION \*\* (continued)****Substances that contribute to the classification**

Reaction mass of ethylbenzene and m-xylene and p-xylene; Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine; Bis[(dimethylamino)methyl]phenol; 3,6-diazaoctanethylenediamin

**UFI:** AS99-5199-G001-C0A3

The product packaging must include: tactile warning.

**2.3 Other hazards:**

Product does not meet PBT/vPvB criteria

Endocrine-disrupting properties: The product does not meet the criteria.

\*\* Changes with regards to the previous version

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\*****3.1 Substance:**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Mixture composed of chemical products

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification  | Chemical name/Classification   | Concentration |
|---|--|---------------|
| CAS: Non-applicable<br>EC: 905-562-9<br>Index: Non-applicable<br>REACH: 01-2119555267-33-XXXX | <b>Reaction mass of ethylbenzene and m-xylene and p-xylene<sup>(1)</sup></b> Self-classified<br>Regulation 1272/2008 Acute Tox. 4: H312+H332; Aquatic Chronic 3: H412; Asp. Tox. 1: H304; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H335 - Danger | 70 - <90 %    |
| CAS: 68082-29-1<br>EC: 500-191-5<br>Index: Non-applicable<br>REACH: 01-2119972320-44-XXXX     | <b>Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine<sup>(1)</sup></b> Self-classified<br>Regulation 1272/2008 Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger                      | 10 - <20 %    |
| CAS: 71-36-3<br>EC: 200-751-6<br>Index: 603-004-00-6<br>REACH: 01-2119484630-38-XXXX          | <b>butan-1-ol<sup>(1)</sup></b> Self-classified<br>Regulation 1272/2008 Acute Tox. 4: H302; Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger   | 10 - <20 %    |
| CAS: 90-72-2<br>EC: 202-013-9<br>Index: 603-069-00-0<br>REACH: 01-2119560597-27-XXXX          | <b>2,4,6-tris(dimethylaminomethyl)phenol<sup>(1)</sup></b> ATP CLP00<br>Regulation 1272/2008 Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning   | 1 - <10 %     |
| CAS: 71074-89-0<br>EC: 275-162-0<br>Index: Non-applicable<br>REACH: Non-applicable            | <b>Bis[(dimethylamino)methyl]phenol<sup>(2)</sup></b> Self-classified<br>Regulation 1272/2008 Skin Corr. 1B: H314 - Danger   | 0,1 - <1 %    |
| CAS: 112-24-3<br>EC: 203-950-6<br>Index: 612-059-00-5<br>REACH: Non-applicable                | <b>3,6-diazaoctanethylenediamin<sup>(1)</sup></b> ATP CLP00<br>Regulation 1272/2008 Acute Tox. 4: H312; Aquatic Chronic 3: H412; Skin Corr. 1B: H314; Skin Sens. 1: H317 - Danger  | 0,25 - <1 %   |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

<sup>(2)</sup> Voluntarily-listed substance failing to meet any of the criteria set out in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification  | Acute toxicity  |                | Genus |
|---|-----------------|----------------|-------|
| Reaction mass of ethylbenzene and m-xylene and p-xylene | LD50 oral       | Not relevant   |       |
| CAS: Non-applicable                                     | LD50 dermal     | 1100 mg/kg     | Rat   |
| EC: 905-562-9   | LC50 inhalation | 11 mg/L (ATEI) |       |

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\* (continued)**

| Identification   | Acute toxicity  |                  | Genus |
|--|-----------------|------------------|-------|
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6                            | LD50 oral       | 500 mg/kg (ATEi) |       |
|  | LD50 dermal     | Not relevant     |       |
|  | LC50 inhalation | Not relevant     |       |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9 | LD50 oral       | 1200 mg/kg       | Rat   |
|  | LD50 dermal     | Not relevant     |       |
|  | LC50 inhalation | Not relevant     |       |

\*\* Changes with regards to the previous version

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Not available

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media:****Suitable extinguishing media:**

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

**Unsuitable extinguishing media:**

Water jet

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

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 5: FIREFIGHTING MEASURES (continued)**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

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

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling:****A.- General precautions for safe use**

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

**B.- Technical recommendations for the prevention of fires and explosions**

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

**C.- Technical recommendations on general occupational hygiene**

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

**D.- Technical recommendations to prevent environmental risks**

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

**7.2 Conditions for safe storage, including any incompatibilities:****A.- Technical measures for storage**

|                |           |
|----------------|-----------|
| Minimum Temp.: | 10 °C     |
| Maximum Temp.: | 25 °C     |
| Maximum time:  | 24 Months |

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 7: HANDLING AND STORAGE (continued)****B.- General conditions for storage**

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

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

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

**DNEL (Workers):**

| Identification  |            | Short exposure        |                       | Long exposure          |                       |
|---|------------|-----------------------|-----------------------|------------------------|-----------------------|
|   |            | Systemic              | Local                 | Systemic               | Local                 |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable<br>EC: 905-562-9   | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant          |
|   | Dermal     | Not relevant          | Not relevant          | 212 mg/kg              | Not relevant          |
|   | Inhalation | 442 mg/m <sup>3</sup> | 442 mg/m <sup>3</sup> | 221 mg/m <sup>3</sup>  | 221 mg/m <sup>3</sup> |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine<br>CAS: 68082-29-1<br>EC: 500-191-5 | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant          |
|   | Dermal     | Not relevant          | Not relevant          | 1,1 mg/kg              | Not relevant          |
|   | Inhalation | Not relevant          | Not relevant          | 3,9 mg/m <sup>3</sup>  | Not relevant          |
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6   | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant          |
|   | Dermal     | Not relevant          | Not relevant          | Not relevant           | Not relevant          |
|   | Inhalation | Not relevant          | Not relevant          | Not relevant           | 310 mg/m <sup>3</sup> |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9  | Oral       | Not relevant          | Not relevant          | Not relevant           | Not relevant          |
|   | Dermal     | Not relevant          | Not relevant          | 0,15 mg/kg             | Not relevant          |
|   | Inhalation | Not relevant          | Not relevant          | 0,53 mg/m <sup>3</sup> | Not relevant          |

**DNEL (General population):**

| Identification  |            | Short exposure        |                       | Long exposure            |                        |
|---|------------|-----------------------|-----------------------|--------------------------|------------------------|
|   |            | Systemic              | Local                 | Systemic                 | Local                  |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable<br>EC: 905-562-9   | Oral       | Not relevant          | Not relevant          | 12,5 mg/kg               | Not relevant           |
|   | Dermal     | Not relevant          | Not relevant          | 125 mg/kg                | Not relevant           |
|   | Inhalation | 260 mg/m <sup>3</sup> | 260 mg/m <sup>3</sup> | 65,3 mg/m <sup>3</sup>   | 65,3 mg/m <sup>3</sup> |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine<br>CAS: 68082-29-1<br>EC: 500-191-5 | Oral       | Not relevant          | Not relevant          | 0,56 mg/kg               | Not relevant           |
|   | Dermal     | Not relevant          | Not relevant          | 0,56 mg/kg               | Not relevant           |
|   | Inhalation | Not relevant          | Not relevant          | 0,97 mg/m <sup>3</sup>   | Not relevant           |
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6   | Oral       | Not relevant          | Not relevant          | 1,562 mg/kg              | Not relevant           |
|   | Dermal     | Not relevant          | Not relevant          | 3,125 mg/kg              | Not relevant           |
|   | Inhalation | Not relevant          | Not relevant          | 55,357 mg/m <sup>3</sup> | 155 mg/m <sup>3</sup>  |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9  | Oral       | Not relevant          | Not relevant          | 0,075 mg/kg              | Not relevant           |
|   | Dermal     | Not relevant          | Not relevant          | 0,075 mg/kg              | Not relevant           |
|   | Inhalation | Not relevant          | Not relevant          | 0,13 mg/m <sup>3</sup>   | Not relevant           |

**PNEC:**

| Identification  |              |              |                         |             |
|---|--------------|--------------|-------------------------|-------------|
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable<br>EC: 905-562-9 | STP          | 6,58 mg/L    | Fresh water             | 0,327 mg/L  |
|   | Soil         | 2,31 mg/kg   | Marine water            | 0,327 mg/L  |
|   | Intermittent | 0,327 mg/L   | Sediment (Fresh water)  | 12,46 mg/kg |
|   | Oral         | Not relevant | Sediment (Marine water) | 12,46 mg/kg |

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER**
**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**



| Identification  |              |              |                         |              |
|---|--------------|--------------|-------------------------|--------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine<br>CAS: 68082-29-1<br>EC: 500-191-5 | STP          | 3,84 mg/L    | Fresh water             | 0,004 mg/L   |
|   | Soil         | 86,78 mg/kg  | Marine water            | 0 mg/L       |
|   | Intermittent | 0,043 mg/L   | Sediment (Fresh water)  | 434,02 mg/kg |
|   | Oral         | Not relevant | Sediment (Marine water) | 43,4 mg/kg   |
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6   | STP          | 2476 mg/L    | Fresh water             | 0,082 mg/L   |
|   | Soil         | 0,017 mg/kg  | Marine water            | 0,008 mg/L   |
|   | Intermittent | 2,25 mg/L    | Sediment (Fresh water)  | 0,324 mg/kg  |
|   | Oral         | Not relevant | Sediment (Marine water) | 0,032 mg/kg  |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9  | STP          | 0,2 mg/L     | Fresh water             | 0,046 mg/L   |
|   | Soil         | 0,025 mg/kg  | Marine water            | 0,005 mg/L   |
|   | Intermittent | 0,46 mg/L    | Sediment (Fresh water)  | 0,262 mg/kg  |
|   | Oral         | Not relevant | Sediment (Marine water) | 0,026 mg/kg  |

**8.2 Exposure controls:**
**A.- Individual protection measures, such as personal protective equipment**



In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have CE marking in accordance with Directive 2016/425/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**



| Pictogram   | PPE                               | Labelling  | CEN Standard        | Remarks  |
|---|-----------------------------------|--|---------------------|--|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | <br>CAT III | EN 405:2002+A1:2010 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

**C.- Specific protection for the hands**



| Pictogram  | PPE  | Labelling  | CEN Standard      | Remarks  |
|--|--|--|-------------------|--|
| <br>Mandatory hand protection | Chemical protective gloves (Material: Butyl, Breakthrough time: > 480 min) | <br>CAT III | EN ISO 21420:2020 | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

**D.- Eye and face protection**

| Pictogram  | PPE         | Labelling   | CEN Standard  | Remarks   |
|--|-------------|---|---|---|
| <br>Mandatory face protection | Face shield | <br>CAT II | EN 166:2002<br>EN 167:2002<br>EN 168:2002<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |



**E.- Body protection**

| Pictogram   | PPE   | Labelling  | CEN Standard  | Remarks   |
|---|---|--|---|---|
| <br>Mandatory complete body protection | Disposable clothing for protection against chemical risks, with antistatic and fireproof properties | <br>CAT III | EN 1149-1,2,3<br>EN 13034:2005+A1:2009<br>EN ISO 13982-1:2004/A1:2010<br>EN ISO 6529:2013<br>EN ISO 6530:2005<br>EN ISO 13688:2013<br>EN 464:1994 | For professional use only. Clean periodically according to the manufacturer's instructions. |



- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER**

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Pictogram  | PPE   | Labelling   | CEN Standard  | Remarks                                     |
|--|---|---|---|---|
| <br>Mandatory foot protection | Safety footwear for protection against chemical risk, with antistatic and heat resistant properties |  | EN ISO 13287:2020<br>EN ISO 20345:2011<br>EN 13832-1:2019 | Replace boots at any sign of deterioration. |

F.- Additional emergency measures

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

Physical state at 20 °C: Liquid  
 Appearance: Fluid  
 Colour: Yellowish  
 Odour: Characteristic  
 Odour threshold: Not available \*

**Volatility:**

Boiling point at atmospheric pressure: Not available \*  
 Vapour pressure at 20 °C: Not available \*  
 Vapour pressure at 50 °C: Not available \*  
 Evaporation rate at 20 °C: Not available \*

**Product description:**

Density at 20 °C: 902 kg/m<sup>3</sup>  
 Relative density at 20 °C: 0,902  
 Dynamic viscosity at 20 °C: Not available \*  
 Kinematic viscosity at 20 °C: Not available \*  
 Kinematic viscosity at 40 °C: >20,5 mm<sup>2</sup>/s  
 Concentration: Not available \*  
 pH: Not available \*  
 Vapour density at 20 °C: Not available \*  
 Partition coefficient n-octanol/water 20 °C: Not available \*  
 Solubility in water at 20 °C: Not available \*  
 Solubility properties: Solvent miscible  
 Decomposition temperature: Not available \*  
 Melting point/freezing point: Not available \*

**Flammability:**

Flash Point: 28 °C

\*Not available due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -



**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

|                            |                 |
|----------------------------|-----------------|
| Flammability (solid, gas): | Not available * |
| Autoignition temperature:  | Not available * |
| Lower flammability limit:  | Not available   |
| Upper flammability limit:  | Not available   |

**Particle characteristics:**

|                             |                |
|-----------------------------|----------------|
| Median equivalent diameter: | Non-applicable |
|-----------------------------|----------------|

**9.2 Other information:****Information with regard to physical hazard classes:**

|  |                 |
|--|-----------------|
| Explosive properties:  | Not available * |
| Oxidising properties:  | Not available * |
| Corrosive to metals:   | Not available * |
| Heat of combustion:  | Not available * |
| Aerosols-total percentage (by mass) of flammable components: | Not available * |

**Other safety characteristics:**

|                           |                 |
|---------------------------|-----------------|
| Surface tension at 20 °C: | Not available * |
| Refraction index:         | Not available * |

\*Not available due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight            | Humidity       |
|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable     | Not applicable   | Risk of combustion      | Avoid direct impact | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION \*\*****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)****A- Ingestion (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

**B- Inhalation (acute effect):**

- Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

**C- Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces serious eye damage after contact.

**D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.  
IARC: Reaction mass of ethylbenzene and m-xylene and p-xylene (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**E- Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

**F- Specific target organ toxicity (STOT) - single exposure:**

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

**G- Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**H- Aspiration hazard:**

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

| Identification  | Acute toxicity  |                   | Genus  |
|---|-----------------|-------------------|--------|
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable<br>EC: 905-562-9   | LD50 oral       | 2100 mg/kg        | Rat    |
|   | LD50 dermal     | 1100 mg/kg (ATEi) | Rat    |
|   | LC50 inhalation | 11 mg/L (ATEi)    |        |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine<br>CAS: 68082-29-1<br>EC: 500-191-5 | LD50 oral       | >2000 mg/kg       |        |
|   | LD50 dermal     | >2000 mg/kg       |        |
|   | LC50 inhalation | >20 mg/L          |        |
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6   | LD50 oral       | 500 mg/kg (ATEi)  |        |
|   | LD50 dermal     | 3400 mg/kg        | Rabbit |
|   | LC50 inhalation | 24,66 mg/L (4 h)  | Rat    |

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



## Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER

## SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued)

| Identification   | Acute toxicity    |             | Genus |
|--|-------------------|-------------|-------|
|  | LD50 oral         | LD50 dermal |       |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9 | 1200 mg/kg (ATEI) | >2000 mg/kg | Rat   |
| Bis[(dimethylamino)methyl]phenol<br>CAS: 71074-89-0<br>EC: 275-162-0   | LD50 oral         | >2000 mg/kg |       |
|  | LD50 dermal       | >2000 mg/kg |       |
|  | LC50 inhalation   | >20 mg/L    |       |
| 3,6-diazaoctanethylenediamin<br>CAS: 112-24-3<br>EC: 203-950-6         | LD50 oral         | 2100 mg/kg  | Rat   |
|  | LD50 dermal       | >2000 mg/kg |       |
|  | LC50 inhalation   | >20 mg/L    |       |

**11.2 Information on other hazards:****Endocrine disrupting properties**

Endocrine-disrupting properties: The product does not meet the criteria.

**Other information**

Not relevant

*\*\* Changes with regards to the previous version*

## SECTION 12: ECOLOGICAL INFORMATION \*\*

The experimental information related to the eco-toxicological properties of the product itself is not available

Harmful to aquatic life with long lasting effects.

**12.1 Toxicity:****Acute toxicity:**

| Identification  | Concentration |                       | Species                         | Genus      |
|---|---------------|-----------------------|---------------------------------|------------|
|   | LC50          | EC50                  |                                 |            |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable<br>EC: 905-562-9   | LC50          | >10 - 100 mg/L (96 h) |                                 | Fish       |
|   | EC50          | >10 - 100 mg/L (48 h) |                                 | Crustacean |
|   | EC50          | >10 - 100 mg/L (72 h) |                                 | Algae      |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine<br>CAS: 68082-29-1<br>EC: 500-191-5 | LC50          | 7 mg/L (96 h)         | Danio rerio                     | Fish       |
|   | EC50          | 7 mg/L (48 h)         | Daphnia magna                   | Crustacean |
|   | EC50          | 4 mg/L (72 h)         | Pseudokirchneriella subcapitata | Algae      |
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6   | LC50          | 1740 mg/L (96 h)      | Pimephales promelas             | Fish       |
|   | EC50          | 1983 mg/L (48 h)      | Daphnia magna                   | Crustacean |
|   | EC50          | 500 mg/L (96 h)       | Scenedesmus subspicatus         | Algae      |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9  | LC50          | 345 mg/L (96 h)       | QSAR                            | Fish       |
|   | EC50          | Not relevant          |                                 |            |
|   | EC50          | Not relevant          |                                 |            |
| 3,6-diazaoctanethylenediamin<br>CAS: 112-24-3<br>EC: 203-950-6  | LC50          | 495 mg/L (96 h)       | Pimephales promelas             | Fish       |
|   | EC50          | 31,1 mg/L (48 h)      | Daphnia magna                   | Crustacean |
|   | EC50          | Not relevant          |                                 |            |

**Chronic toxicity:**

| Identification   | Concentration |              | Species             | Genus      |
|--|---------------|--------------|---------------------|------------|
|  | NOEC          | EC50         |                     |            |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable EC: 905-562-9 | NOEC          | 1,3 mg/L     | Oncorhynchus mykiss | Fish       |
|  | NOEC          | 1,17 mg/L    | Ceriodaphnia dubia  | Crustacean |
| butan-1-ol<br>CAS: 71-36-3 EC: 200-751-6   | NOEC          | Not relevant |                     |            |
|  | NOEC          | 4,1 mg/L     | Daphnia magna       | Crustacean |

**12.2 Persistence and degradability:****Substance-specific information:***\*\* Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -



## Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER

## SECTION 12: ECOLOGICAL INFORMATION \*\* (continued)

| Identification  | Degradability |              | Biodegradability |              |
|---|---------------|--------------|------------------|--------------|
|   |               |              |                  |              |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable<br>EC: 905-562-9 | BOD5          | Not relevant | Concentration    | Not relevant |
|   | COD           | Not relevant | Period           | 28 days      |
|   | BOD5/COD      | Not relevant | % Biodegradable  | 88 %         |
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6   | BOD5          | 1,71 g O2/g  | Concentration    | Not relevant |
|   | COD           | 2,46 g O2/g  | Period           | 19 days      |
|   | BOD5/COD      | 0,7          | % Biodegradable  | 98 %         |

**12.3 Bioaccumulative potential:****Substance-specific information:**

| Identification  | Bioaccumulation potential |          |
|---|---------------------------|----------|
|   |                           |          |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable<br>EC: 905-562-9   | BCF                       | 9        |
|   | Pow Log                   | 2.77     |
|   | Potential                 | Low      |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine<br>CAS: 68082-29-1<br>EC: 500-191-5 | BCF                       | 77       |
|   | Pow Log                   |          |
|   | Potential                 | Moderate |
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6   | BCF                       | 1        |
|   | Pow Log                   | 0.88     |
|   | Potential                 | Low      |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9  | BCF                       | 3        |
|   | Pow Log                   | 0.77     |
|   | Potential                 | Low      |

**12.4 Mobility in soil:**

| Identification  | Absorption/desorption |                      | Volatility |                                  |
|---|-----------------------|----------------------|------------|----------------------------------|
|   |                       |                      |            |                                  |
| Reaction mass of ethylbenzene and m-xylene and p-xylene<br>CAS: Non-applicable<br>EC: 905-562-9 | Koc                   | 202                  | Henry      | 524,86 Pa·m <sup>3</sup> /mol    |
|   | Conclusion            | Moderate             | Dry soil   | Yes                              |
|   | Surface tension       | Not relevant         | Moist soil | Yes                              |
| butan-1-ol<br>CAS: 71-36-3<br>EC: 200-751-6   | Koc                   | 2.44                 | Henry      | 5,39E-2 Pa·m <sup>3</sup> /mol   |
|   | Conclusion            | Very High            | Dry soil   | Yes                              |
|   | Surface tension       | 2,567E-2 N/m (25 °C) | Moist soil | Yes                              |
| 2,4,6-tris(dimethylaminomethyl)phenol<br>CAS: 90-72-2<br>EC: 202-013-9                          | Koc                   | 15130                | Henry      | 9,312E-12 Pa·m <sup>3</sup> /mol |
|   | Conclusion            | Immobile             | Dry soil   | No                               |
|   | Surface tension       | Not relevant         | Moist soil | No                               |
| 3,6-diazaoctanethylenediamin<br>CAS: 112-24-3<br>EC: 203-950-6                                  | Koc                   | Not relevant         | Henry      | Not relevant                     |
|   | Conclusion            | Not relevant         | Dry soil   | Not relevant                     |
|   | Surface tension       | 4,307E-2 N/m (25 °C) | Moist soil | Not relevant                     |

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

Product does not meet PBT/vPvB criteria

**12.6 Endocrine disrupting properties:**

Endocrine-disrupting properties: The product does not meet the criteria.

**12.7 Other adverse effects:**

Not described

\*\* Changes with regards to the previous version

## SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods:**

| Code      | Description   | Waste class (Regulation (EU) No 1357/2014) |
|-----------|---|--|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances | Hazardous                                  |

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 13: DISPOSAL CONSIDERATIONS (continued)****Type of waste (Regulation (EU) No 1357/2014):**

HP3 Flammable, HP14 Ecotoxic, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION \*\*****Transport of dangerous goods by land:**

With regard to ADR 2023 and RID 2023:



|  |               |
|--|---------------|
| <b>14.1 UN number or ID number:</b>                                  | UN1263        |
| <b>14.2 UN proper shipping name:</b>                                 | PAINT         |
| <b>14.3 Transport hazard class(es):</b>                              | 3             |
| Labels:  | 3             |
| <b>14.4 Packing group:</b>   | III           |
| <b>14.5 Environmental hazards:</b>                                   | No            |
| <b>14.6 Special precautions for user</b>                             |               |
| Special regulations:   | 163, 367, 650 |
| Tunnel restriction code:   | D/E           |
| Physico-Chemical properties:   | see section 9 |
| Limited quantities:  | 5 L           |
| <b>14.7 Maritime transport in bulk according to IMO instruments:</b> | Not relevant  |

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:



|  |                    |
|--|--------------------|
| <b>14.1 UN number or ID number:</b>                                  | UN1263             |
| <b>14.2 UN proper shipping name:</b>                                 | PAINT              |
| <b>14.3 Transport hazard class(es):</b>                              | 3                  |
| Labels:  | 3                  |
| <b>14.4 Packing group:</b>   | III                |
| <b>14.5 Marine pollutant:</b>  | No                 |
| <b>14.6 Special precautions for user</b>                             |                    |
| Special regulations:   | 223, 955, 163, 367 |
| EmS Codes:   | F-E, S-E           |
| Physico-Chemical properties:   | see section 9      |
| Limited quantities:  | 5 L                |
| Segregation group:   | Not relevant       |
| <b>14.7 Maritime transport in bulk according to IMO instruments:</b> | Not relevant       |

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER**

**SECTION 14: TRANSPORT INFORMATION \*\* (continued)**



- 14.1 UN number or ID number:** UN1263
- 14.2 UN proper shipping name:** PAINT
- 14.3 Transport hazard class(es):** 3  
Labels: 3
- 14.4 Packing group:** III
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**  
Physico-Chemical properties: see section 9
- 14.7 Maritime transport in bulk according to IMO instruments:** Not relevant

\*\* Changes with regards to the previous version

**SECTION 15: REGULATORY INFORMATION**

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

- Article 95, REGULATION (EU) No 528/2012: Not relevant
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

**Seveso III:**

| Section | Description       | Lower-tier requirements | Upper-tier requirements |
|---------|-------------------|-------------------------|-------------------------|
| P5c     | FLAMMABLE LIQUIDS | 5000                    | 50000                   |

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION \*\***

**Legislation related to safety data sheets:**

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 16: OTHER INFORMATION \*\* (continued)**

COMMISSION REGULATION (EU) 2020/878

COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

· New declared substances

3,6-diazaoctanethylenediamin (112-24-3)

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

Bis[(dimethylamino)methyl]phenol (71074-89-0)

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-

1)

Reaction mass of ethylbenzene and m-xylene and p-xylene

· Removed substances

1-methoxy-2-propanol (107-98-2)

bisphenol-A- (epichlorhydrin)- ethylenediamine (copolymer) (36704-31-1)

Xylene (1330-20-7)

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

Substances that contribute to the classification (SECTION 2):

· New declared substances

3,6-diazaoctanethylenediamin (112-24-3)

Bis[(dimethylamino)methyl]phenol (71074-89-0)

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine (68082-29-

1)

Reaction mass of ethylbenzene and m-xylene and p-xylene

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

· Hazard statements

· Precautionary statements

TRANSPORT INFORMATION (SECTION 14):

· UN number

**Texts of the legislative phrases mentioned in section 2:**

H226: Flammable liquid and vapour.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

H373: May cause damage to organs through prolonged or repeated exposure.

H412: Harmful to aquatic life with long lasting effects.

H312+H332: Harmful in contact with skin or if inhaled.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

Acute Tox. 4: H302 - Harmful if swallowed.

Acute Tox. 4: H312 - Harmful in contact with skin.

Acute Tox. 4: H312+H332 - Harmful in contact with skin or if inhaled.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Irrit. 2: H315 - Causes skin irritation.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Skin Sens. 1A: H317 - May cause an allergic skin reaction.

STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

STOT SE 3: H335 - May cause respiratory irritation.

STOT SE 3: H336 - May cause drowsiness or dizziness.

**Classification procedure:***\*\* Changes with regards to the previous version*

- CONTINUED ON NEXT PAGE -

**UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO 1:1 - HARDENER FOR EPOXY PRIMER****SECTION 16: OTHER INFORMATION \*\* (continued)**

Flam. Liq. 3: Calculation method (2.6.4.3)

Skin Irrit. 2: Calculation method

Eye Dam. 1: Calculation method

Skin Sens. 1: Calculation method

STOT SE 3: Calculation method

STOT RE 2: Calculation method

Aquatic Chronic 3: Calculation method

Acute Tox. 4: Calculation method

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

*\*\* Changes with regards to the previous version*

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -