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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - 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:

Agencja Handlowa 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

## **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:

- H226 Flammable liquid and vapour.
- H312+H332 Harmful in contact with skin or if inhaled.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- 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.
- **Precautionary statements:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- 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: Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray. Do not use a direct stream of water to extinguish.

\*\* Changes with regards to the previous version

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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - 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

#### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria Endocrine-disrupting properties: The product fails to 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	Reaction mass of ethylbenzene and m-xylene and p-xylene (1) Self-classified				
REACH:	905-562-9 Non-applicable 01-2119555267-33- XXXX	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 %		
EC:	68082-29-1 500-191-5	Fatty acids, C18-uns and triethylenetetra	atd., dimers, oligomeric reaction products with tall-oil fatty acids Self-classified mine <sup>(1)</sup>			
REACH:	Non-applicable 01-2119972320-44- XXXX	Regulation 1272/2008	Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315; Skin Sens. 1A: H317 - Danger	10 - <20 %		
	71-36-3	butan-1-ol <sup>(1)</sup>	Self-classified			
EC: 200-751-6 Index: 603-004-00-6 REACH: 01-2119484630-38- XXXX Action 1272/2008 Acute Tox. 4: H302; Eye Dat STOT SE 3: H336 - Danger		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	; <b>10 - &lt;20 %</b>		
	90-72-2	2,4,6-tris(dimethyla	minomethyl)phenol <sup>(1)</sup> ATP CLP00			
REACH:	202-013-9 603-069-00-0 01-2119560597-27- XXXX	Regulation 1272/2008	Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning	1 - <10 %		
	71074-89-0	Bis[(dimethylamino)	methyl]phenol <sup>(1)</sup> Self-classified			
EC: 275-162-0 Index: Non-applicable REACH: Non-applicable		Regulation 1272/2008	Skin Corr. 1B: H314 - Danger	0,1 - <1 %		
	112-24-3	3,6-diazaoctanethyle	enediamin <sup>(1)</sup> ATP CLP00			
	203-950-6 612-059-00-5 : Non-applicable	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> 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.

\*\* 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:** 

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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

#### SECTION 4: FIRST AID MEASURES (continued)

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:

Non-applicable

#### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

#### Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

#### Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

#### 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:

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.

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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

#### SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

#### 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

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):



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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

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

		Short e	exposure	Long e	exposure
Identification		Systemic	Local	Systemic	Local
Reaction mass of ethylbenzene and m-xylene and p-xylene	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
S: Non-applicable	Dermal	Non-applicable	Non-applicable	212 mg/kg	Non-applicable
EC: 905-562-9	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	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 68082-29-1	Dermal	Non-applicable	Non-applicable	1,1 mg/kg	Non-applicable
EC: 500-191-5	Inhalation	Non-applicable	Non-applicable	3,9 mg/m <sup>3</sup>	Non-applicable
butan-1-ol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 71-36-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 200-751-6	Inhalation	Non-applicable	Non-applicable	Non-applicable	310 mg/m <sup>3</sup>
2,4,6-tris(dimethylaminomethyl)phenol	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 90-72-2	Dermal	Non-applicable	Non-applicable	0,15 mg/kg	Non-applicable
EC: 202-013-9	Inhalation	Non-applicable	Non-applicable	0,53 mg/m <sup>3</sup>	Non-applicable

## DNEL (General population):

		Short exposure		Long exposure	
Identification		Systemic	Local	Systemic	Local
Reaction mass of ethylbenzene and m-xylene and p-xylene	Oral	Non-applicable	Non-applicable	12,5 mg/kg	Non-applicable
CAS: Non-applicable	Dermal	Non-applicable	Non-applicable	125 mg/kg	Non-applicable
EC: 905-562-9	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	Oral	Non-applicable	Non-applicable	0,56 mg/kg	Non-applicable
CAS: 68082-29-1	Dermal	Non-applicable	Non-applicable	0,56 mg/kg	Non-applicable
EC: 500-191-5	Inhalation	Non-applicable	Non-applicable	0,97 mg/m <sup>3</sup>	Non-applicable
butan-1-ol	Oral	Non-applicable	Non-applicable	1,562 mg/kg	Non-applicable
CAS: 71-36-3	Dermal	Non-applicable	Non-applicable	3,125 mg/kg	Non-applicable
EC: 200-751-6	Inhalation	Non-applicable	Non-applicable	55,357 mg/m <sup>3</sup>	155 mg/m <sup>3</sup>
2,4,6-tris(dimethylaminomethyl)phenol	Oral	Non-applicable	Non-applicable	0,075 mg/kg	Non-applicable
CAS: 90-72-2	Dermal	Non-applicable	Non-applicable	0,075 mg/kg	Non-applicable
EC: 202-013-9	Inhalation	Non-applicable	Non-applicable	0,13 mg/m <sup>3</sup>	Non-applicable

## PNEC:

Identification				
Reaction mass of ethylbenzene and m-xylene and p-xylene	STP	6,58 mg/L	Fresh water	0,327 mg/L
CAS: Non-applicable	Soil	2,31 mg/kg	Marine water	0,327 mg/L
EC: 905-562-9	Intermittent	0,327 mg/L	Sediment (Fresh water)	12,46 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	12,46 mg/kg
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	STP	3,84 mg/L	Fresh water	0,004 mg/L
CAS: 68082-29-1	Soil	86,78 mg/kg	Marine water	0 mg/L
EC: 500-191-5	Intermittent	0,043 mg/L	Sediment (Fresh water)	434,02 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	43,4 mg/kg
butan-1-ol	STP	2476 mg/L	Fresh water	0,082 mg/L
CAS: 71-36-3	Soil	0,017 mg/kg	Marine water	0,008 mg/L
EC: 200-751-6	Intermittent	2,25 mg/L	Sediment (Fresh water)	0,324 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,032 mg/kg
2,4,6-tris(dimethylaminomethyl)phenol	STP	0,2 mg/L	Fresh water	0,046 mg/L
CAS: 90-72-2	Soil	0,025 mg/kg	Marine water	0,005 mg/L
EC: 202-013-9	Intermittent	0,46 mg/L	Sediment (Fresh water)	0,262 mg/kg
	Oral	Non-applicable	Sediment (Marine water)	0,026 mg/kg

## 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

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
Mandatory respiratory tract protection	Filter mask for gases and vapours		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
Mandatory hand protection	Chemical protective gloves (Material: Chloroprene, Breakthrough time: > 480 min, Thickness: 0.65 mm)		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
Mandatory face protection	Face shield	CAT II	EN 166:2002 EN 167:2002 EN 168:2002 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
Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties		EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982- 1:2004/A1:2010 EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994	For professional use only. Clean periodically according to the manufacturer's instructions.
Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties		EN ISO 13287:2020 EN ISO 20345:2011 EN 13832-1:2019	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
+	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	<b>•</b> +	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011
Emergency shower		Eyewash stations	

#### **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



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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTIE	S
9.1	Information on basic physical and chemical pro	operties:
	For complete information see the product datasheet.	
	Appearance:	
	Physical state at 20 °C:	Liquid
	Appearance:	Fluid
	Colour:	Yellowish
	Odour:	Characteristic
	Odour threshold:	Non-applicable *
	Volatility:	
	Boiling point at atmospheric pressure:	Non-applicable *
	Vapour pressure at 20 °C:	Non-applicable *
	Vapour pressure at 50 °C:	Non-applicable *
	Evaporation rate at 20 °C:	Non-applicable *
	Product description:	
	Density at 20 °C:	902 kg/m³
	Relative density at 20 °C:	0,902
	Dynamic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 20 °C:	Non-applicable *
	Kinematic viscosity at 40 °C:	>20,5 mm²/s
	Concentration:	Non-applicable *
	pH:	Non-applicable *
	Vapour density at 20 °C:	Non-applicable *
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *
	Solubility in water at 20 °C:	Non-applicable *
	Solubility properties:	Solvent miscible
	Decomposition temperature:	Non-applicable *
	Melting point/freezing point:	Non-applicable *
	Flammability:	
	Flash Point:	28 °C
	Flammability (solid, gas):	Non-applicable *
	Autoignition temperature:	Non-applicable *
	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 cla	sses:
	Explosive properties:	Non-applicable *
	Oxidising properties:	Non-applicable *
	Corrosive to metals:	Non-applicable *
	Heat of combustion:	Non-applicable *
	Aerosols-total percentage (by mass) of flammable	Non-applicable *
	components: Other safety characteristics:	
	*Not relevant due to the nature of the product, not providing info	armation property of its bazards
	Not relevant due to the nature of the product, not providing init	

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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Surface tension at 20 °C:

Non-applicable \*

Refraction index:

Non-applicable \*

\*Not relevant 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.

#### 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 ( $CO_2$ ), 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:

- 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):

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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

#### SECTION 11: TOXICOLOGICAL INFORMATION \*\* (continued 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: Non-applicable Specific toxicology information on the substances: Identification Acute toxicity Genus LD50 oral 2100 mg/kg Reaction mass of ethylbenzene and m-xylene and p-xylene Rat LD50 dermal CAS: Non-applicable 1100 mg/kg Rat EC: 905-562-9 LC50 inhalation 11 mg/L (ATEi) Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and LD50 oral >2000 mg/kg triethylenetetramine LD50 dermal >2000 mg/kg CAS: 68082-29-1 EC: 500-191-5 LC50 inhalation >20 mg/L LD50 oral 500 mg/kg (ATEi) butan-1-ol LD50 dermal 3400 mg/kg Rabbit CAS: 71-36-3 LC50 inhalation EC: 200-751-6 24,66 mg/L (4 h) Rat LD50 oral 1200 mg/kg Rat 2,4,6-tris(dimethylaminomethyl)phenol CAS: 90-72-2 LD50 dermal >2000 mg/kg EC: 202-013-9 LC50 inhalation >20 mg/L LD50 oral >2000 mg/kg Bis[(dimethylamino)methyl]phenol CAS: 71074-89-0 LD50 dermal >2000 mg/kg LC50 inhalation EC: 275-162-0 >20 mg/L LD50 oral 3,6-diazaoctanethylenediamin 2100 mg/kg Rat

#### **11.2** Information on other hazards:

#### Endocrine disrupting properties

Endocrine-disrupting properties: The product fails to meet the criteria.

#### **Other information**

Non-applicable

CAS: 112-24-3

EC: 203-950-6

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -

LD50 dermal

LC50 inhalation

1100 mg/kg

>20 mg/L

Revised: 18/10/2022 Version: 2 (Replaced 1)

Rat



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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR **EPOXY PRIMER**

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

## 12.1 Toxicity:

#### Acute toxicity:

Identification		Concentration	Species	Genus
Reaction mass of ethylbenzene and m-xylene and p-xylene	LC50	>10 - 100 mg/L (96 h)		Fish
CAS: Non-applicable	EC50	>10 - 100 mg/L (48 h)		Crustacean
EC: 905-562-9	EC50	>10 - 100 mg/L (72 h)		Algae
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	LC50	7 mg/L (96 h)	Danio rerio	Fish
CAS: 68082-29-1	EC50	7 mg/L (48 h)	Daphnia magna	Crustacean
EC: 500-191-5	EC50	4 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
butan-1-ol	LC50	1740 mg/L (96 h)	Pimephales promelas	Fish
CAS: 71-36-3	EC50	1983 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-751-6	EC50	500 mg/L (96 h)	Scenedesmus subspicatus	Algae
2,4,6-tris(dimethylaminomethyl)phenol	LC50	345 mg/L (96 h)	QSAR	Fish
CAS: 90-72-2	EC50	Non-applicable		
EC: 202-013-9	EC50	Non-applicable		
3,6-diazaoctanethylenediamin	LC50	495 mg/L (96 h)	Pimephales promelas	Fish
CAS: 112-24-3	EC50	31,1 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-950-6	EC50	Non-applicable		

#### **Chronic toxicity:**

Identification	Concentration		Species	Genus
Reaction mass of ethylbenzene and m-xylene and p-xylene		1,3 mg/L	Oncorhynchus mykiss	Fish
CAS: Non-applicable EC: 905-562-9		1,17 mg/L	Ceriodaphnia dubia	Crustacean
butan-1-ol	NOEC	Non-applicable		
CAS: 71-36-3 EC: 200-751-6	NOEC	4,1 mg/L	Daphnia magna	Crustacean

## 12.2 Persistence and degradability:

## Substance-specific information:

Identification	Degradability		Biodegradability		
Reaction mass of ethylbenzene and m-xylene and p-xylene	BOD5	Non-applicable	Concentration	Non-applicable	
CAS: Non-applicable	COD	Non-applicable	Period	28 days	
EC: 905-562-9	BOD5/COD	Non-applicable	% Biodegradable	88 %	
butan-1-ol	BOD5	1,71 g O2/g	Concentration	Non-applicable	
CAS: 71-36-3	COD	2,46 g O2/g	Period	19 days	
EC: 200-751-6	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	BCF	9	
CAS: Non-applicable	Pow Log	2.77	
EC: 905-562-9	Potential	Low	
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	BCF	77	
CAS: 68082-29-1	Pow Log		
EC: 500-191-5	Potential	Moderate	
butan-1-ol	BCF	1	
CAS: 71-36-3	Pow Log	0.88	
EC: 200-751-6	Potential	Low	

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	Identification	Bioaccumulation potential					
	2,4,6-tris(dimethylaminomethyl)phenol		E	BCF	CF 3		
	CAS: 90-72-2		F	ow Log 0.77			
	EC: 202-013-9		F	otential Low			
2.4	Mobility in soil:						
[	Identification Absorption/desorption Vola						
[	Reaction mass of ethylbenzene and m-xylene and p-xylene	Кос	202	Henry		524,86 Pa·m <sup>3</sup> /mol	
	CAS: Non-applicable	Conclusion	Moderate	Dry soil		Yes	
	EC: 905-562-9	Surface tension	Non-applicable	Moist soil		Yes	
Ì	butan-1-ol	Кос	2.44	Henry		5,39E-2 Pa·m <sup>3</sup> /mol	
	CAS: 71-36-3	Conclusion	Very High	Dry soil		Yes	
	EC: 200-751-6	Surface tension	2,567E-2 N/m (25 °C)	Moist soil		Yes	
ĺ	2,4,6-tris(dimethylaminomethyl)phenol	Кос	15130	Henry		9,312E-12 Pa·m³/mo	
	CAS: 90-72-2	Conclusion	Immobile	Dry soil		No	
	EC: 202-013-9	Surface tension	Non-applicable	Moist soil		No	
1	3,6-diazaoctanethylenediamin	Кос	Non-applicable	Henry		Non-applicable	
	CAS: 112-24-3	Conclusion	Non-applicable	Dry soil		Non-applicable	
	EC: 203-950-6	Surface tension	4,307E-2 N/m (25 °C)	Moist soil		Non-applicable	

## 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

# 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to 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	Dangerous	

#### 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-dangerous 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 2021 and RID 2021:

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**EPOXY PRIMER** 

SECTION 14: TRANSF	PORT	INFORMATION ** (continued	1)
		UN number or ID number: UN proper shipping name:	UN1263 PAINT
she		Transport hazard class(es):	3
	_	Labels:	3
	14.4	Packing group:	III
3	14.5	Environmental hazards:	No
· ·	14.6	Special precautions for user	
		Special regulations:	163, 367, 650
		Tunnel restriction code:	D/E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
	14.7	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transport of da	ngero	ous goods by sea:	
With regard to IN	-		
		UN number or ID number:	UN1263
		UN proper shipping name:	PAINT
		Transport hazard class(es):	3
		Labels:	3
	14.4	Packing group:	III
3		Marine pollutant:	No
×	14.6	Special precautions for user	
		Special regulations:	223, 955, 163, 367
		EmS Codes:	F-E, S-E
		Physico-Chemical properties:	see section 9
		Limited quantities:	5 L
		Segregation group:	Non-applicable
	14./	Maritime transport in bulk according to IMO instruments:	Non-applicable
Transport of da	ngero	ous goods by air:	
With regard to IA	TA/ICA	AO 2022:	
	14.1	UN number or ID number:	UN1263
ste	14.2	UN proper shipping name:	PAINT
	14.3	Transport hazard class(es):	3
		Labels:	3
3		Packing group:	III
		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:	Non-applicable
** Changes with regards to a	the new		

\*\* 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: Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

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## SECTION 15: REGULATORY INFORMATION (continued)

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

## 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.: 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) Xvlene (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

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## UTWARDZACZ DO PODKŁADU EPOKSYDOWEGO - HARDENER FOR EPOXY PRIMER

SECTION 16: OTHER INFORMATION \*\* (continued 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:** Flam, Lig. 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

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Version: 2 (Replaced 1)

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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 -

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