

# SAFETY DATA SHEET

Revision: 12.04.2023

VERSION: 1.0/EN

## SRL Component A

in accordance the Commission Regulation (EU) No **2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

#### 1.1 Product identifier

SRL Component A

Unique Formula Identifier UFI: VD10-10U9-J00Y-EGCM

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

Identified uses Epoxyd two-component epoxy resin

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU 22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against: not determined.

#### 1.3 Details of the supplier of the safety data sheet

Eurostep Poland Sp. z o.o.

95-054 Ksawerów

ul. Tymiankowa 37/39; Poland

Tel.: (42) 235-28-88

www.eurostep.com.pl

Product technical information: eurostep@eurostep.com.pl

#### 1.4 Emergency telephone number

Nationwide emergency telephones (Mon-Fri 8:00 – 16:00): (+48) (42) 235-28-88

112 (emergency telephone number)

Emergency telephone number				
Country	Official advisory body	Address	Emergency number	Remark
Austria	Vergiftungsinformationszentrale (Poisons Information Centre)	Stubenring 6 1010 Wien	+43 1 406 43 43	
Belgium	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base – Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245	Please dial: 070 245245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Bulgaria	Национален токсикологичен информационен център (National Toxicological Information Centre) Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов" (National Clinical Toxicology Centre), Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409	
Croatia	Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada	Ksaverska Cesta 2 p.p. 291 10000 Zagreb	+385 1 234 8342	
Cyprus	Κέντρο Δηλητηριάσεων		1401	Operating hours 24 hours / 24 hours, 7 days a week
Czech Republic	Toxikologickéinformačnístředisko Klinikapracovníholékařství VFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	
Denmark	Gifflinjen Bispebjerg Hospital	Bispebjerg Bakke 23 2400 København NV	+45 82 12 12 12	
Estonia	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	16662 +372 626 93 90	
Finland	Myrkytystietokeskus	Stenbäckinkatu 9 PO BOX 100 29 Helsinki	+358 9 471 977 +358 9 4711	
France	Centre Antipoison et de Toxicovigilance de Paris Hôpital Fernand Widal	200 rue du Faubourg Saint-Denis 75475 Paris Cedex 10	+33 1 40 05 48 48	
France	Centre Antipoison et de Toxicovigilance de Marseille Hôpital Sainte Marguerite	270 boulevard de Sainte Marguerite 13274 Marseille Cedex 09	+33 4 91 75 25 25	
Germany	Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik rechts der Isar der Technischen Universität München	Ismaninger Straße 22 81675 München	+49 (0) 89 19240	
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftsgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	
Greece	Poisons Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 2 10 779 3777	

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Hungary	Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat	Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest	+36 80 20 11 99	
Iceland	Eitrunarmiðstöð Landspítali	Fossvogi 108 Reykjavik	+354 543 22 22	
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Italy	Centro Antiveneni Dipartimento di Tossicologia Clinica, Università Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 168 Roma	+39 06 305 4343	
Latvia	Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs	Hipokrāta 2 1038 Rīga	+371 67 04 24 73	
Lithuania	Apsinuodijimų informacijos biuras	Birutės g. 56 8110 Vilnius	+370 5 236 20 52 +370 687 53378	
Luxembourg	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+352 8002 5500	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
Netherlands	Nationaal Vergiftigingen Informatie Centrum Universitair Medisch Centrum Utrecht, Het Nationaal Vergiftigingen Informatie Centrum (NVIC) informeert (dieren-) artsen, apothekers en andere professionele hulpverleners over de mogelijke gezondheidseffecten en behandelingsmogelijkheden bij vergiftigingen. Het NVIC is hiervoor dag en nacht bereikbaar, zowel telefonisch als via internet	Huispostnummer B.00.118 PO Box 85500 3508 GA Utrecht	+31 30 274 88 88	Only for the purpose of informing medical personnel in cases of acute intoxications
Norway	Giftinformasjonen Helsedirektoratet	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300	
Poland	National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)	ul. Teresy 8 P.O. BOX 199 90950 Łódź	+48 42 63 14 724	
Portugal	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica	Rua Almirante Barroso, 36 1000-013 Lisboa	+351 808 250 143	
Romania	Department of Clinical Toxicology Spitalul de Urgenta Floreasca	Calea Floreasca Bucuresti	+40 21 230 8000	
Serbia	Nacionalni centar za kontrolu trovanja - VMA	Crnotravska 17 11000 Beograd	+381 11 360 84 40 (24h) +381 11 3672 187	
Slovakia	Národné toxikologické informačné centrum Univerzitná nemocnica Bratislava, pracovisko Kramáre, Klinikapracovné hľadanie a toxikológia	Limbová 5 833 05 Bratislava	+421 2 54 77 41 66	
Slovenia	Center za kliničnotoksikologijo in farmakologijo Internaklinika, UKCL	Zaloška cesta 7 1525 Ljubljana	+386 41 650 500	
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Sevilla	Carretera de San Jerónimo Km 0,4 41080 Sevilla	+34 91 562 04 20	(Toxicological emergencies only). Information in Spanish (24/7)
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	(from abroad: +41 44 251 51 51) non urgent inquiry: +41 44 251 66 66
Switzerland	Tox Info Suisse	Freiestrasse 16 8032 Zürich	145	

## 2 SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

##### Physical and chemical hazards:

This mixture does not present a physical hazard.

##### Health hazards

**Serious eye damage/eye irritation, Hazard Category 1 [Eye Dam. 1]**

Causes serious eye damage (H318)

**Skin corrosion/irritation, Hazard Category 2 [Skin Irrit. 2]**

Causes skin irritation (H315)

**Sensitisation -Skin, hazard category 1, 1A, 1B [Skin Sens. 1]**

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May cause an allergic skin reaction (H317)

**Reproductive toxicity, Hazard Category 1A, 1B [Repr. 1B]**

May damage fertility. (H360F)

Environmental hazards:

**Hazardous to the aquatic environment - Chronic Hazard, Category 2 [Aquatic Chronic 2]**

Toxic to aquatic life with long lasting effects (H411)

### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008**

**Pictogram**



**GHS05**

**GHS08**

**GHS07**

**GHS09**

**Signal word: Danger**

Substances which influenced classification

Bis-[4-(2,3-epoxipropoxy)phenyl]propane; Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-([4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane; Bisphenol A

**Hazard statement(s)**

H315 Causes skin irritation

H317 May cause an allergic skin reaction.

H360F May damage fertility.

H318 Causes serious eye damage

H411 Toxic to aquatic life with long lasting effects

**Precautionary statement(s):**

Prevention

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection

P273 Avoid release to the environment

Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P310 Immediately call a POISON CENTER/doctor

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant

**Additional labelling:**

EUH205 Contains epoxy constituents. May produce an allergic reaction.

### 2.3 Other hazards

The substances contained in the product do not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

**This mixture contains components considered** to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100

## 3 SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

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### 3.1 Substances:

Not applicable

### 3.2 Mixtures:

Substance identifier	Name of the substance	Weight fraction %	Classification in line with The Regulation (EC) No. 1272/2008		
			Signal Word Code(s)	Hazard Class and Category Code(s)	Hazard Statement Code(s)
CAS No: 1675-54-3 EC No 216-823-5 Index No 603-073-00-2 REACH No: 01-2119456619-26-xxxx	<u>Bis-[4-(2,3-epoxipropoxy)phenyl]propane</u>	25 < x < 30	GHS07 GHS09 Wng	Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 <b>Specific Concentration limits</b> Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 %	H315 H319 H317 H411
CAS No: EC No 701-263-0 Index No REACH No: 01-2119454392-40-xxxx	<u>Reaction mass of 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]bis(oxirane) and 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]bis(oxirane) and 2-((2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl)oxirane</u>	5 < x < 10	GHS07 GHS09 Wng	Skin Irrit 2 Skin Sens. 1 Aquatic Chronic 2	H315 H317 H411
CAS No -80-05-7 EC No: 201-245-8 Index No: 604-030-00-0 REACH No:	<u>Bisphenol A [1.2.3.4]</u>	5 < x < 10	GHS07 GHS08 GHS05 Dgr	Eye Dam. 1 Skin Sens. 1 STOT SE 3 Repr. 1B	H318 H317 H335 H360F
CAS No : 68609-97-2 EC No: 271-846-8 Index No: 603-103-00-4 REACH No: 01-2119485289-22-xxxx	<u>Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.</u>	5 < x < 10	GHS07 Wng	Skin Irrit. 2 Skin Sens. 1	H315 H317
CAS No: 100-51-6 EC No: 202-859-9 Index No: 603-057-00-5 REACH No: 01-2119492630-38-xxxx	<u>Benzyl alcohol [1]</u>	1 < x < 3	GHS07 Wng	Acute Tox. 4 Acute Tox. 4	H332 H302
CAS No: 14808-60-7 EC No: 238-878-4 Index No: REACH No:	<u>Quartz (SiO2) [1]</u>	< 1	---	Not Classified	---
CAS No: 872-50-4 EC No: 212-828-1 Index No: 606-021-00-7 REACH No: 01-2119472430-46-xxxx	<u>1-methyl-2-pyrrolidone [1.2.3]</u>	< 0.25	GHS08 GHS07 Dgr	Repr. 1B STOT SE 3 Skin Irrit. 2 Eye Irrit. 2 <b>Specific Concentration limits:</b> STOT SE 3; H335: C ≥ 10 %	H360D H335 H315 H319

[1] Substance with national exposure limit in the workplace

[2] Substance with European Union level exposure limit in the workplace

[3] Substance is subject to the restrictions contained in Annex XVII of the REACH Regulation see 15 section SDS

[4] REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Full H phrases are specified in point 16 hereof.

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### 4 SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

- If inhaled: Take the victim out of the exposure area, place them in a comfortable half-sitting or lying position, provide calm and protect against heat loss. If needed, seek medical help
- In case of skin contact: Remove contaminated clothing. Wash the affected area with plenty of water, preferably lukewarm. If skin irritation persists, seek medical help c
- In case of eye contact: Rinse immediately with plenty of cool, running water and continue rinsing for at least 15 minutes. Remove contact lenses. Do not use heavy streams of water to avoid cornea damage. If the irritation persists, consult an eye-doctor.
- If swallowed: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

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

- Skin contact: Possible burning sensation, temporary irritation. May cause an allergic skin reaction.
- Eye contact: Serious burns, cornea and conjunctiva damage leading to irreversible vision loss and even blindness.
- Ingestion: Possible abdominal pain, nausea, vomiting, irritation of digestive tract.
- Inhalation: In case of exposure to high vapors concentration possible irritation of respiratory tract, headache and dizziness

#### 4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Treat symptomatically

### 5 SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media:

Jet water.

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

During the fire, the product may produce harmful gases. Do not inhale combustion products, they can be dangerous for human health

#### 5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Do not let extinguishing water to reach drainage system, surface water and groundwater. Collect used extinguishing media.

### 6 SECTION 6: ACCIDENTAL RELEASE MEASURES

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

For non-emergency personnel: Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. In case of large spills, isolate the affected area. Avoid direct contact with releasing product. Avoid breathing vapors. Use personal protective equipment. Avoid contact with eyes and skin. Provide adequate ventilation. Remove all sources of ignition, extinguish flames, prohibit smoking. Danger of slipping on spilled product.

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For emergency responders: ensure that only the trained personnel removes the effects of the accident. Use personal protective measures.

### 6.2 Environmental precautions

In case of release of large amounts of the mixture, it is necessary to take appropriate steps to prevent it from spreading into the environment. Do not let the product to get to the sewage system. Notify relevant emergency services.

### 6.3 Methods and material for containment and cleaning up

Large spill: isolate the place of liquid accumulation, pump away the collected liquid.

Small spill: collect with incombustible materials which absorb liquids (for example: sand, soil, universal firming agents, silica, vermiculite, etc.) and place in labeled containers. Treat the collected material as waste. Clean and ventilate the affected area

### 6.4 Reference to other sections

Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## 7 SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Keep away from heat, sparks and flame. Do not store with incompatible materials (see subsection 10.5).

### 7.3 Specific end use(s)

No information on applications other than those listed in subsection 1.2.

## 8 SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

### 8.1 Control parameters

<b>Benzyl alcohol [100-51-6]</b>				
Finland	10	45		
Germany (AGS)	5 (1)	22 (1)	10 (1)(2)	44 (1)(2)
(DFG)	5 (1)(2)	22 (1)(2)	10 (1)(2)(3)	44 (1)(2)(3)
Latvia		5		
Poland		250		
Switzerland	5	22		
<b>Remarks:</b>				
Germany (AGS)	(1) Inhalable fraction and vapour (2) 15 minutes average value			
Germany (DFG)	(1) Inhalable fraction and vapour (2) Skin (3) 15 minutes average value			
<b>Quartz [14808-60-7]</b>				
Limit value - Eight hours		Limit value - Short term		
	[ppm]	[mg/m <sup>3</sup> ]	[ppm]	[mg/m <sup>3</sup> ]
Austria		0.05(1)(2)		
Belgium		0.1		
Denmark		0,3 inhalable aerosol		0,6 inhalable aerosol
		0,1 respirable aerosol		0,2 respirable aerosol
Finland		0.05(1)		
France		0,1 respirable aerosol		

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Hungary	0,15 respirable aerosol
Ireland	0,1 (1)
Norway	0,3 (1) 0,1 (2)
Poland	0.1(1)
Spain	0,05 (1)
Sweden	0,1 (1)
Switzerland	0,15 respirable aerosol
The Netherlands	0,075 respirable dust

**Remarks:**

Austria(1) MAK value (2) Respirable fraction  
Finland (1) Respirable fraction  
France Bold type: Restrictive statutory limit values  
Ireland(1) Respirable fraction  
Norway (1) Total dust (2) Respirable fraction  
Poland(1) Respirable fraction  
Spain (1) Respirable fraction  
Sweden (1) Respirable fraction

**N-Methyl-2-pyrrolidon [872-50-4]**

	Limit value - Eight hours		Limit value - Short term	
	[ppm]	[mg/m <sup>3</sup> ]	[ppm]	[mg/m <sup>3</sup> ]
Austria	10	40	20	80
Belgium	10 (1)	40 (1)	20 (1)(2)	80 (1)(2)
Denmark	5 (1)	20 (1)	10 (1)(2)	40 (1)(2)
European Union	10	40	20 (1)	80 (1)
	14,4			
Finland	3,5	14	20 (1)	80 (1)
France	10	40	20 (1)	80 (1)
Germany (AGS)	20 (1)(2)	82 (1)(2)	40 (1)(2)(3)	164 (1)(2)(3)
(DFG)	20 (1)(2)	82 (1)(2)	40 (1)(2)(3)	164 (1)(2)(3)
Ireland	10	40	20 (1)	80 (1)
Italy	10	40	20 (1)(2)	80 (1)
Latvia	10	40	20 (1)	80 (1)
Norway	5 (1)	20 (1)	20 (1)(2)	80 (1)(2)
Poland		40		80
Romania	10	40	20 (1)	80 (1)
Spain	10 (1)	40 (1)	20 (1)(2)	80 (1)(2)
Sweden	3,6	14,4	20 (1)	80 (1)
Switzerland	20	80	40	160
The Nitherlands		40		80
United Kingdom	10	40	20 (1)	80 (1)

**Remarks:**

Belgium(1) Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air. (2) 15 minutes average value  
Denmark(1) Skin (2) 15 minutes average value  
European Union (1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~ Bold+Italics-type: Derived No Effect Level (DNEL) according to REACH regulation annex XVII ~ (for references see bibliography)

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Finland (1) 15 minutes average value  
 France Italics type: Indicative statutory limit values Skin (1) 15 minutes average value  
 Germany (AGS) (1) Inhalable fraction and vapour (2) Skin (3) 15 minutes average value  
 Germany (DFG) (1) Inhalable fraction and vapour (2) Skin (3) 15 minutes average value  
 Ireland (1) 15 minutes reference period  
 Italy (1) Skin (2) 15 minutes average value  
 Latvia (1) 15 minutes average value  
 Norway (1) Skin (2) 15 minutes average value  
 Romania (1) 15 minutes average value  
 Spain (1) Skin (2) 15 minutes average value  
 Sweden (1) 15 minutes average value  
 United Kingdom (1) 15 minutes average value

### **Bisphenol A [80-05-7]**

<b>Limit value - Eight hours</b>		<b>Limit value - Short term</b>	
<b>ppm</b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>mg/m<sup>3</sup></b>
Austria	2 (1)		5 (1)(2)
Belgium	2		
Denmark	2		4 (1)
European Union	2 (1)		
Finland	2		
France	2	(1)	
Germany (AGS)	5 (1)		5 (1)(2)
Germany (DFG)	5 (1)		5 (1)(2)
Ireland	2 (1)		
Italy	2 (1)(2)		
Latvia	2		
Norway	2 (1)		
Poland	2 (1)		
Romania	2 (1)		
Spain	2		
Sweden	2		
Switzerland	3 (1)		
The Netherlands	2		
United Kingdom	10		

### **Remarks**

Austria (1) Inhalable fraction (2) Ceiling limit value  
 Denmark (1) 15 minutes average value  
 European Union (1) Inhalable fraction Bold-type: Binding Occupational Exposure Limit Value (BOELV) ~ (for references see bibliography)  
 France Bold type: Restrictive statutory limit values (1) Inhalable fraction  
 Germany (AGS) (1) Inhalable aerosol (2) 15 minutes average value  
 Germany (DFG) (1) Inhalable fraction (2) 15 minutes average value  
 Ireland (1) Inhalable fraction  
 Italy (1) Inhalable fraction (2) Skin  
 Norway (1) Inhalable fraction  
 Poland (1) Inhalable fraction  
 Romania (1) Inhalable fraction  
 Switzerland (1) Inhalable fraction



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### Recommended monitoring procedures

Procedures shall be in place to monitor the air concentrations of hazardous components and, where available and justified at the workplace, to control the cleanliness of air in the workplace in accordance with relevant Polish or European Standards, taking into account the conditions at the exposure site and the appropriate measurement methodology adapted to the working conditions. The mode, type and frequency of tests and measurements should meet the requirements of the Ordinance of the Minister of Health of 2 February 2011 (OJ No. 33, item 166).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. When handling do not eat, drink or smoke. Before break and after work wash hands carefully. Avoid eye contamination and prolonged skin contact. Do not inhale vapors. Ensure adequate ventilation in order to maintain the concentration of harmful factors below the limit values

### 8.2.2 Individual protection measures, such as personal protective equipment

#### Hand and body protection

Use gloves resistant to chemicals. Recommended glove [nitrile rubber] In case of short-term exposure wear the protective gloves with protection level 2 or higher (breakthrough time > 30 min). In case of long-term exposure wear the protective gloves with protection level 6 (breakthrough time > 480 min). Wear protective clothing and shoes – resistant to chemicals

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

#### Eye/face protection

Use protective glasses, if there is a risk of eye contamination

#### Respiratory protection :

Not required, if the ventilation is adequate In case of vapors and aerosols formation, use the absorbing or absorbing and filtering equipment of an adequate protective class (class 1/ protection from gasses or vapors with a volume concentration lower than 0,1%; class 2/ protection from gasses or vapors with a volume concentration lower than 0,5%; class 3/ protection from gasses or vapors with a volume concentration up to 1%). If the concentration of oxygen is  $\leq 19\%$  and/or the maximum concentration of toxic substance in the air is  $\geq 1,0\%$  of volume the isolating equipment should be used.

Personal protective equipment must meet requirements of directive 89/686/CE. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance

## 8.3 Environmental exposure controls

Avoid release to the environment, do not enter the sewage system. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation

## 9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Physical state:	Thick liquid
Colour:	Not available
Odour:	Organic compounds
Melting point/freezing point:	Not available
Boiling point or initial boiling point and boiling range:	Not available
Flammability:	Not available
Lower and upper explosion limit:	Not available
Flash point:	Not available

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Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
pH:	Not available
Kinematic viscosity:	5700-8300 mPa·s
Solubility:	Not available
Partition coefficient n-octanol/water (log value):	Not available
Vapour pressure:	Not available
Density and/or relative density:	1,68-1,69 g/cm <sup>3</sup>
Relative vapour density:	Not available
Particle characteristics:	Not applicable [Liquid]

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

Information unavailable

#### 9.2.2 Other safety characteristics

Information unavailable

## 10 SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No reactivity under recommended storage and handling conditions.

### 10.2 Chemical stability

Stable under recommended storage and usage conditions.

### 10.3 Possibility of hazardous reactions

Stable under normal conditions of use and storage

### 10.4 Conditions to avoid

Information unavailable

### 10.5 Incompatible materials

Avoid contact with oxidizing materials.

### 10.6 Hazardous 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. Reference to other sections: 5.2.

## 11 SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicity of components

1,2-bis[4-(2,3-epoxypropoxy)phenyl]propane

LD50 oral > 15000 mg/kg Rat

LD50 dermal > 2000 mg/kg Rat

Benzyl alcohol

LD50 Dermal Rabbit 2000 mg/kg -

LD50 Oral Rat 1230 mg/kg

Bisphenol A

LD50 Dermal Rabbit 3590 mg/kg -

LD50 Oral Rat 3250 mg/kg

#### Toxicity of mixture

Acute toxicity

ATE MIX oral (mg / kg): > 2000 Based on available information, classification criteria are not met.

ATE MIX dermal(mg/kg): > 2.000,0 Based on available information, classification criteria are not met.

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ATE<sub>MIX</sub> inhalation (mg/l/4h): >20 Based on available information, classification criteria are not met.

\*ATE<sub>MIX</sub> value was calculated using relevant converted acute toxicity point estimate included in 3.1.2 table from Regulation 1272/2008/EC.

Based on available information, classification criteria are not met.

### Skin corrosion/irritation:

Causes skin irritation

### Serious eye damage/irritation:

Causes serious eye damage

### Respiratory or skin sensitisation

May cause an allergic skin reaction

### Germ cell mutagenicity

Based on available information, classification criteria are not met.

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

May damage fertility.

### STOT-single exposure:

May cause respiratory irritation

### STOT-repeated exposure:

Based on available information, classification criteria are not met.

### Aspiration hazard

Based on available information, classification criteria are not met.

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Skin contact: Possible burning sensation, temporary irritation. May cause an allergic skin reaction.

Eye contact: Serious burns, cornea and conjunctiva damage leading to irreversible vision loss and even blindness.

Ingestion: Possible abdominal pain, nausea, vomiting, irritation of digestive tract.

Inhalation: In case of exposure to high vapor concentration possible irritation of respiratory tract, headache and dizziness

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

#### **Product:**

Assessment : This substance/mixture contains components considered to have endocrinedisrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### **Components:**

Assessment : Bisphenol A [1.2.3.4] The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for human health

### 11.2.2 Other information

Not applicable to substances

## 12 SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### **Toxicity of components**

2,2-bis[4-(2,3-epoxypropoxy)phenyl]propane (1675-54-3)

LC50 - Fish 2 mg/l (Oncorhynchus mykiss)

EC50 - Shellfish 1.8 mg/l (Daphnia magna)

Algae ErC50 > 11 mg/l (Scenedesmus capricornutum)

NOEC for chronic crustacea 0.3 mg/l (OECD 211; Daphnia magna)

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Chronic NOEC for algae 2.4 mg/l (Oncorhynchus mykiss)  
Bisphenol F reaction product zepichlorohydrin; an epoxy resin  
EC50 72h - Algae  $\geq$  1.8 mg/l (OECD 201; Pseudokirchneriella subcapitata)  
NOEC for chronic crustacea 0.3 mg/l (OECD 211; Daphnia magna)

### Toxicity of product

Toxic to aquatic life with long lasting effects

In order to minimise long-term global pollution, this should be considered:

- Reducing the use of products and disposable packaging.
- Participation in recycling activities
- Do not allow product to enter water, sewage or soil

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

Benzyl alcohol (100-51-6)

(Log Pow) 1.1

2,2-bis[4-(2,3-epoxypropoxy)phenyl]propane (1675-54-3)

(Log Pow)  $\geq$  2.918 (25 °C; pH 7.1)

Bisphenol F reaction product zepichlorohydrin; an epoxy resin

(Log Pow) 3,6 (20 °C)

### 12.4 Mobility in soil

The mobility of the substance depends on their hydrophilic and hydrophobic properties and abiotic and biotic conditions of soil, including its structures, climatic conditions, seasons (in Poland, in a variable moderate climate) and soil organisms, mainly (bacteria, fungi, algae, invertebrates).

### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : This substance/mixture contains components considered to have endocrinedisrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100

#### Components:

Assessment : Bisphenol A [1.2.3.4] The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for human health

### 12.7 Other adverse effects

The mixture is not classified as hazardous to the ozone layer. There should be considered the possibility of other harmful effects of the individual components of the mixture on the environment. (eg. the ability of disrupting endocrine , the impact of global warming potential).

## 13 SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Disposal methods for the product: dispose in accordance with applicable regulations. Do not introduce into drains. Residues store in sealed, steel containers. .

Disposal methods for used packing: reuse/recycle/eliminate empty containers in accordance with the local legislation. Only completely emptied packaging can be recycled.

Legal basis: Directive 2008/98/EC, 94/62/EC.

## 14 SECTION 14: TRANSPORT INFORMATION

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**375** These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

### 14.1 UN number or ID number

ADR/ARID/IMDG/IATA: UN3082

### 14.2 UN proper shipping name

ADR/RID/ IMDG/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

274: Bis-[4-(2,3-epoxipropoxy)phenyl]propane

### 14.3 Transport hazard class(es)

ADR/RID/ IMDG/IATA: 9

### 14.4 Packing group

ADR/RID/ IMDG/IATA: III

### 14.5 Environmental hazards

ADR/RID/ IMDG/IATA: Yes

### 14.6 Special precautions for user

#### ADR

Tunnel restriction code	[-]
Transport category	3
Limited quantity: LQ:	5 L
Packing instructions:	'P001 IBC03 LP01 R001
Special provisions:	'274;335;375;601

#### IMDG

Packing instructions	P001; LP01; IBC03
EmS:	F-A, S-F
Stowage and handling	Category A
Special provisions	274.335.969
Limited quantities LQ:	5 L

#### IATA

##### IATA-packing instructions - Passenger

Excepted quantities (IATA) :	E1
Limited quantities (IATA) :	Y964
Limited quantity Passenger (IATA):	1L
Packing instructions: (IATA) :	353
Max. quantity net (IATA) :	5L

##### IATA (Cargo)

IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60L
ERG code (IATA) :	3L

### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

## 15 SECTION 15: REGULATORY INFORMATION

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

Seveso Directive

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2012/18/EU (Seveso III)		Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes
<b>E2</b>	<b>Hazardous to the Aquatic Environment in Category Chronic 2</b>	<b>200</b>	<b>500</b>	<b>51)</b>
<b>REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59)</b>		<b>Bisphenol A [80-05-7]</b>		
<b>REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)</b>		<b>Bisphenol A [80-05-7] No 66 N-Methyl-2-pyrrolidon [872-50-4] No 71</b>		

### Other legislation:

1. **1272/2008/EC** of the Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures - amending and repealing Directive 67/548/EEC and 1999/45/EC, and Regulation (EC) No 1907/2006.
2. **2018/669/UE** Commission Regulation (EU) 2018/669 of 16 April 2018 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures Text with EEA relevance.
3. **790/2009/EC** of 10 August 2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures.
4. **2008/98/EC** Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
5. **94/62/EC** Commission Directive 2013/2/EU of 7 February 2013; amending Annex I to Directive 94/62/EC of the European Parliament and of the Council on packaging and packaging waste
6. **2015/830/EU** Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

### 15.2 Chemical safety assessment

The supplier has not assessed chemical safety It is not required for the mixture.

## 16 SECTION 16: OTHER INFORMATION

### Other sources of information:

IUCLID Data Bank (European Commission – European Chemicals Bureau).

ESIS – European Chemical Substances Information System (European Chemicals Bureau).

Safety Data Sheet made by: **mgr Małgorzata Krenke; Feed Reach Consulting” www.frc.com.pl**

### Disclaimer

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field

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

Skin Sens. 1	H317	calculation method
Aquatic Chronic 2	H411	calculation method
Skin Irrit. 2	H315	calculation method
Eye Dam. 1	H318	calculation method
Repr. 1B	H360F	calculation method

### H (hazard) phrases specified in point 2 and 3 hereof:

H315	Causes skin irritation.
Skin Irrit. 2	Skin corrosion/irritation, Hazard Category 2
H319	Causes serious eye irritation.
Eye Irrit. 2	Serious eye damage/eye irritation, Hazard Category 2
H302	Harmful if swallowed
Acute Tox 4	Acute toxicity (oral), Hazard Category 4
H332	Harmful if inhaled
Acute Tox4	Acute toxicity (inhal.), Hazard Category 4
H361	Suspected of damaging fertility or the unborn child
Repr. 2	Reproductive toxicity, Hazard Category 2
H317	May cause an allergic skin reaction
Skin Sens. 1	Sensitisation — Skin, hazard category 1, 1A, 1B
H411	Toxic to aquatic life with long lasting effects
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
H318	Causes serious eye damage
Eye Dam 1	Serious eye damage/eye irritation, Hazard Category 1
H335	May cause respiratory irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Hazard Category 3

### Explanation of returns

ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EH40/2005	Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
GHS "	Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)

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ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	the Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	short-term exposure limit
SVHC	Substance of Very High Concern
TWA	time-weighted average
VOC	Volatile Organic Compounds
vPvB	very Persistent and very Bioaccumulative
WEL	workplace exposure limit

### Training

Prior to working with the product you should be familiar with safety rules for handling the chemicals, in particular take proper workplace training. **People associated with the transport of hazardous materials in accordance with ADR** should be adequately trained to perform their duties (general training, bench and safety).