Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET



TEKNOPOX FILL

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier Product name

: TEKNOPOX FILL

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

 Product use
 : Putty.

1.3 Details of the supplier of the safety data sheet

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091. e-mail address of person : Prod-safe@teknos.com

responsible for this SDS

National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number: In an emergency, call 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360F Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms

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Signal word	: Danger
Hazard statements	 H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H360F - May damage fertility. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	 P201 - Obtain special instructions before use. P280 - Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. P273 - Avoid release to the environment.

SECTION 2: Hazards identification

SECTION 2: Hazards	10	ienuncation
Response	1	P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention.
Storage	:	Not applicable.
Disposal	1	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Contains: Bis[4-(2,3-epoxypropoxy)phenyl]propane; Oxirane, mono[(C12-14-alkyloxy)methyl]derivs.; 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 and Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine
Supplemental label elements	:	Contains epoxy constituents. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Restricted to professional users.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do	:	None known.

Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Bis[4-(2,3-epoxypropoxy) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥25 - ≤50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	REACH #: 01-2119485289-22 EC: 271-846-8 CAS: 68609-97-2 Index: 603-103-00-4	≤10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 1B, H360F	-	[1]
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	REACH #: 01-2119454392-40 EC: 500-006-8 CAS: 9003-36-5	≤5	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7	≤5	Carc. 2, H351 (inhalation)	-	[1] [*]

SECTION 3: Composition/information on ingredients					
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	<1	Skin Sens. 1B, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter \leq 10 µm not bound within a matrix.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1	Descri	ption	of	first	aid	measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4.2 Most important symptor	ns and effects, both acute and delayed
Over-exposure signs/symp	o <u>toms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness

Inhalation : Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any imm	ediate medical attention and special treatment needed
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: No specific treatment.

5.1 Extinguishing media		
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	None known.	
5.2 Special hazards arising	m the substance or mixture	
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.	
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides	
5.3 Advice for firefighters		
Special protective actions for fire-fighters	 Promptly isolate the scene by removing all persons from the vicinity of the incident there is a fire. No action shall be taken involving any personal risk or without suitable training. 	it if
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.	or

SECTION 6: Accidental release measures

6.1 Personal precautions, prot	ective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

SECTION 6: Accidental release measures

6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and materia	I for containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
E2	200 tonne	500 tonne

7.3 Specific end use(s)

Recommendations

: Not available.

SECTION 7: Handling and storage

Industrial sector specific : Not available. solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Bis[4-(2,3-epoxypropoxy)phenyl]propane	Regulation on Limit Values - MAC (Austria, 4/2021). [1,2-Epoxy- 3-(tolyloxy)propane (all isomers)] TWA: 10 ppm 8 hours. TWA: 70 mg/m ³ 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. PEAK: 140 mg/m ³ , 4 times per shift, 15 minutes.
Oxirane, mono[(C12-14-alkyloxy)methyl]derivs.	Regulation on Limit Values - MAC (Austria, 4/2021). [1,2-Epoxy- 3-(tolyloxy)propane (all isomers)] TWA: 10 ppm 8 hours. TWA: 70 mg/m ³ 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. PEAK: 140 mg/m ³ , 4 times per shift, 15 minutes.
No exposure limit value known.	
Bis[4-(2,3-epoxypropoxy)phenyl]propane	DFG MAC-values list (Germany, 7/2022). Skin sensitiser.
No exposure limit value known.	

SECTION 8: Exposure controls/personal protection			
No exposure limit value known.			
No exposure limit value known.			
No exposure limit value known.			
No exposure limit value known.			
Biological exposure indices			

Biological exposure indices	
Product/ingredient name	Exposure indices
No exposure indices known.	
procedures European Sta assessment values and m atmospheres of exposure t	ould be made to monitoring standards, such as the following: andard EN 689 (Workplace atmospheres - Guidance for the of exposure by inhalation to chemical agents for comparison with limit easurement strategy) European Standard EN 14042 (Workplace - Guide for the application and use of procedures for the assessment o chemical and biological agents) European Standard EN 482 tmospheres - General requirements for the performance of procedures

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for the measurement of chemical agents) Reference to national guidance

SECTION 8: Exposure controls/personal protection

documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Bis[4-(2,3-epoxypropoxy)phenyl] propane	DNEL	Long term Dermal	89.3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.75 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.87 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	4.93 mg/m ³	Workers	Systemic
Oxirane, mono[(C12-14-alkyloxy) methyl]derivs.	DNEL	Long term Oral	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.87 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.6 mg/m ³	Workers	Systemic
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	DMEL	Short term Dermal	8.3 µg/cm²	Workers	Local
	DNEL	Long term Oral	6.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	8.7 mg/m ³	General population	Systemic
	DNEL	Long term	29.39 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	62.5 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	104.15 mg/	Workers	Systemic
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	DNEL	Long term Inhalation	kg bw/day 0.055 mg/ m³	General population	Local
stryton odiamino	DNEL	Long term Inhalation	0.308 mg/ m³	Workers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail	
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	Fresh water	0.003 mg/l	-	
	Fresh water sediment	0.294 mg/kg	-	
	Marine water sediment	0.029 mg/kg	-	
	Sewage Treatment Plant	10 mg/l	-	
	Soil	0.237 mg/kg	-	

8.2 Exposure controls

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls	: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measured	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
	Recommendations :Wear suitable gloves tested to EN374.
	< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm
	> 8 hours (breakthrough time): 4H / Silver Shield® gloves.
	Wash hands before breaks and immediately after handling the product.
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	 Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Filter type: A Filter type (spray application): A P
Environmental exposure controls	 Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>			
Physical state	: Liquid.		
Colour	: Various		
Odour	: Slight		
Odour threshold	: Not available.		
Melting point/freezing point	: Not available.		
Initial boiling point and boiling range	: Not available.		
Flammability	: Not available.		
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SECTION 9: Physical and chemical properties

Lower and upper explosion limit	: Lower: Not applicable. Upper: Not applicable.
Flash point	: Closed cup: >100°C (>212°F)
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
рН	: Not available.
Viscosity	: Not available.
Solubility(ies)	:
Not available.	
Solubility in water	: Not available.
Partition coefficient: n-octanol/	: Not applicable.

water	
Vapour pressure	

Ingredient namemm HgkPaMethodmm HgkPaReaction mass of 2,2'- [methylenebis (2,1-phenyleneoxymethylene)]bis (0xirane) and 2,2'-[methylenebis (0xirane) and 2,2'-[methylenebis (0xirane) and 2-({2-[4-(oxiran- 2-ylmethoxy)benzyl] phenoxy}methyl)oxirane0.620.083EU A.4Oxirane, mono[(C12-14-alkyloxy) methyl]derivs.0.000130.000017OECD 104Relative density Consity: Not available.Density Explosive properties: Not available.Explosive properties Coxidising properties: Not available.		Vap	our Press	ure at 20°C	Vapour pressure at 50°C			
[methylenebis (2,1-phenyleneoxymethylene)]bis (2,1-phenyleneoxymethylenebis (4,1-phenyleneoxymethylenebis (4,1-phenyleneoxymethylene)]bis (oxirane) and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl] phenoxy}methyl)oxirane 0.00013 0.000017 OECD 104 Oxirane, mono[(C12-14-alkyloxy) 0.00013 0.000017 OECD 104 Relative density : Not available. Density : 1.2 g/cm³ /apour density : Not available. Explosive properties : Not available. Dxidising properties : Not available.	gredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
methyl]derivs. Imethyl]derivs. Relative density : Not available. Density : 1.2 g/cm³ /apour density : Not available. Explosive properties : Not available. Dxidising properties : Not available.	ethylenebis 1-phenyleneoxymethylene)]bis irane) and 2,2'-[methylenebis 1-phenyleneoxymethylene)]bis irane) and 2-({2-[4-(oxiran- lmethoxy)benzyl]	0.62	0.083	EU A.4				
Density: 1.2 g/cm³/apour density: Not available.Explosive properties: Not available.Dxidising properties: Not available.		0.00013	0.000017	OECD 104				
/apour density: Not available.Explosive properties: Not available.Dxidising properties: Not available.	tive density	: Not a	vailable.	•				
Explosive properties: Not available.Dxidising properties: Not available.	sity	: 1.2 g/	/cm³					
Dxidising properties : Not available.	our density	: Not available.						
	osive properties	: Not available.						
	lising properties	: Not available.						
Particle characteristics	icle characteristics							
Median particle size : Not applicable.	lian particle size	: Not a	pplicable.					

SECTION 10: Stability and reactivity

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
lonnououng	
10.2 Chemical stability	The product is stable.
10.3 Possibility of	Under normal conditions of storage and use, hazardous reactions will not occur.
hazardous reactions	
10.4 Conditions to avoid	No specific data.
10.5 Incompatible materials	No specific data.
-	•
10.6 Hazardous	Under normal conditions of storage and use, hazardous decomposition products
decomposition products	should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Bis[4-(2,3-epoxypropoxy) phenyl]propane	LD50 Dermal	Rabbit	20 g/kg	-
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	LD50 Oral	Rat	17100 mg/kg	-
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	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

Route	ATE value
Not available.	

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Bis[4-(2,3-epoxypropoxy)	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
phenyl]propane	Skin - Mild irritant	Rabbit		mg 500 mg	
Oxirane, mono[Skin - Moderate irritant	Rabbit	-	24 hours 500	-
(C12-14-alkyloxy)methyl] derivs.		T CODIC		uL	
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]		Rabbit	-	24 hours 500 uL	-
phenoxy}methyl)oxirane titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-

leading to significant impairm	nent of particle clearance mechanisms in the lung.			
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Reproductive toxicity				
Conclusion/Summary	: May damage fertility.			
Teratogenicity				
Conclusion/Summary	: Based on available data, the classification criteria are not met.			
Specific target organ toxicity (single exposure)				

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SECTION 11: Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact	÷	Causes serious eye irritation.
Inhalation	÷	No known significant effects or critical hazards.
Skin contact	÷	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the phys	vio	al chemical and toxicological characteristics

symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Delayed and immediate effect	<u>:ts</u>	as well as chronic effects from short and long-term exposure
Short term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
Potential chronic health eff	ec	t <u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	No known significant effects or critical hazards.
Mutagenicity	:	No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility.

11.2 Information on other hazards

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SECTION 11: Toxicological information

11.2.1 Endocrine disrupting properties Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
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		Algae	72 hours
phenoxyjmetryjjoxirane	EC50 2.55 mg/l	Daphnia - <i>Daphnia magna</i>	48 hours
	Chronic LC50 2.54 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 3 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6.5 mg/l Fresh water	Daphnia - <i>Daphnia pulex -</i> Neonate	48 hours
	Acute LC50 >1000000 μg/l Marine water	Fish - Fundulus heteroclitus	96 hours

Conclusion/Summary : To:

: Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Conclusion/Summary

: This product has not been tested for biodegradation.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3.77	160 to 263	Low
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		-	Low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

SECTION 12: Ecological information

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	3
Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
European waste catalogue (EWC)	: 080111*, 200127*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.

Additional information ADR/RID : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, 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. Tunnel code (-) **ADN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, 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. IMDG : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, 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. ΙΑΤΑ This product is not regulated as a dangerous good when transported in sizes of $\leq 5 L$ 2 or \leq 5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8. Date of issue/Date of revision : 10/09/2024 Date of previous issue : 17/10/2022 Version :5 14/20 TEKNOPOX FILL Label No :85233

SECTION 14: Transport information

14.6 Special precautions for	Transport within user's premises: always transport in closed containers that are
user	upright and secure. Ensure that persons transporting the product know what to do in
	the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not relevant/applicable due to nature of the product.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designatio	n [Usage]		
TEKNOPOX FILL	≥90	3			
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	≤10	30 30			
Labelling : Restricted	to professi	onal users.			
Other EU regulations					
Industrial emissions : Not listed (integrated pollution prevention and control) - Air					
Industrial emissions : Not listed (integrated pollution prevention and control) - Water					
Explosive precursors : Not applic	able.				
Ozone depleting substances (1005/2009 Not listed.	<u>/EU)</u>				
Prior Informed Consent (PIC) (649/2012/ Not listed.	<u>'EU)</u>				
Persistent Organic Pollutants Not listed.					
Seveso Directive					
This product is controlled under the Seves	o Directive.				
Danger criteria					
Category					
E2					
National regulations					
Austria					
VbF class : Not regula	ted.				
Limitation of the use of : Permitted. organic solvents					
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Czech Republic						
Storage code	:	IV				
<u>Denmark</u>						
Danish fire class	:	IV-1				
Executive Order No. 1795/	201	<u>5</u>				
Ingredient name			Annex I Section A	Annex I Section B		
titanium dioxide			Listed	-		
MAL-code	:	1-5	·	·		
Protection based on MAL	:	According to the regulations on work stipulations apply to the use of personal statements apply to the use of personal stateme				
		General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In case, other recommended use of eye protection is not required.				
		In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.				
		MAL-code: 1-5 Application: When using scraper or H treatments in a spray booth where the working in similar new* facilities of the type where the operator is working insi booths and cabins with non-atomizing roller, etc, for pre- and post-treatments type, if the operator is inside the spray roller, etc. for pre- and post-treatments cabin.	operator is outside the combined-cabin, spra ide the spray zone. Wi guns. When using sc in cabins or booths o zone. When using sc	e spray zone and whe y-cabin and spray-boo hen spraying in new* raper or knife, brush, f the existing* facility raper or knife, brush,		
		- Protective clothing must be worn.				
		During downtimes, cleaning and repair there is a risk of contact with wet paint		ray booths or cabins,		
		- Gas filter mask and protective clothin	ıg must be worn.			
		When spraying in existing* spray boot	ns, if the operator is ou	utside the spray zone.		
		- Air-supplied full mask and protective	clothing must be worn	I.		
		During non-atomising spraying in exist cabin and spray-booth type where the				
		- Air-supplied half mask, protective clo	thing and eye protection	on must be worn.		
		During all spraying where atomisation operator is inside the spray zone and o or booth.				
		- Air-supplied full mask, protective clot	hing and hood must be	e worn.		

SECTION 15: Regulatory information

	Drying: Items for drying/drying ovens that are temporarily placed on such thing rack trolleys, etc, must be equipped with a mechanical exhaust system to preventumes from wet items from passing through workers' inhalation zone.	
	Polishing: When polishing treated surfaces, a mask with dust filter must be wo When machine grinding, eye protection must be worn. Work gloves must always worn.	
	Caution The regulations contain other stipulations in addition to the above.	
	*See Regulations.	
Restrictions on use	Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At W	Vork.
List of undesirable substances	Not listed	
Carcinogenic waste	Waste containers must be labeled: Contains a substance or substances regulat by Danish working environment legislation on cancer risks.	ed
Epoxy/Isocyanate	The product is covered by the rules for epoxy resins and isocyanates in Executiv Order no. 1793 of 18/12/2015 on working with substances and materials (chemi agents). Pay attention to the rules, for example: the user of the product must ha undergone special training and waste must be labelled. This requirement is in addition to the training requirement described in the REACH regulation, Annex > entry 74 (COMMISSION REGULATION (EU) 2020/1149).	ical ve
<u>Finland</u>		
<u>France</u>		
Social Security Code, Articles L 461-1 to L 461-7	Oxirane, mono[(C12-14-alkyloxy)methyl]derivs. RG 84	
Reinforced medical surveillance	Act of July 11, 1977 determining the list of activities which require reinforced medical surveillance: not applicable	
<u>Germany</u>		

Storage class (TRGS 510) : 6.1C

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category		Reference number
E2		1.3.2
Hazard class for water	: 2	
Technical instruction on air quality control	: TA-Luft Number 5.2.5: 63.4%	
ΑΟΧ	: The product contains organically bound halogens and value in waste water.	can contribute to the AOX
<u>Italy</u>		
D.Lgs. 152/06	: Not determined.	
Netherlands		
Water Discharge Policy (ABM)	: Z(1) Non biodegradable substances with hazardous pre environment (carcinogenicity/ mutagenicity/ reprotoxici toxicity or persistence). Decontamination effort: Z	
<u>Norway</u>		
<u>Sweden</u>		

SECTION 15: Regulatory information

Epoxy/Isocyanate	: The product is covered by the specific rules for epoxy resins and isocyanates,
-poxy/isocyaliale	allergenic chemical products in provision AFS 2011:19 Chemical Hazards in the Working Environment. Pay attention to that handling the product requires certificate of undergone necessary training and can require medical examination. Waste mus be labelled with named substance and as Hazardous waste. This requirement is in addition to the training requirement described in the REACH regulation, Annex XVI entry 74 (COMMISSION REGULATION (EU) 2020/1149).
Switzerland	
VOC content	: Exempt.
International regulations	<u>5</u>
Chemical Weapon Conv	ention List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention	on Persistent Organic Pollutants
Not listed.	
Rotterdam Convention of	on Prior Informed Consent (PIC)
Not listed.	
UNECE Aarbus Protocol	on POPs and Heavy Metals
Not listed.	
15.2 Chemical safety	: This product contains substances for which Chemical Safety Assessments are still
assessment	required.
SECTION 16: Othe	er information
Indicates information the	at has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate

DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration BBN = REACH Registration Number
RRN = REACH Registration Number SGG = Segregation Group vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360F	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

SECTION 16: Other information

Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
Date of issue/ Date of	: 10/09/2024
revision	
Date of previous issue	: 17/10/2022
Version	: 5

Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.