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

- · 1.1 Product identifier
- · Trade name EPOXY VERSIEGELUNG EP 20 KOMP.A
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Epoxy resin
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: MUREXIN GmbH Franz v. Furtenbachstr. 1 A-2700 Wiener Neustadt Tel.: +43 (0)2622/27401
- · Informing department: chemikalieninfo@murexin.com
- 1.4 Emergency telephone number:
- UK National poisons Emergency number.: +44 (0) 870 600 6266

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

environment

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



Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. Hazard pictograms



GHS07 GHS09

· Signal word Warning

· Hazard-determining components of labelling: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol 1,6-bis(2,3-epoxypropoxy)hexane

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

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- If medical advice is needed, have product container or label at hand. P101
- P102 Keep out of reach of children.

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	(Contd. of page 1)
P103	Read carefully and follow all instructions.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
P305+P351+P	338 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.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
· Additional inf	ormation:
Contains epoxy	/ constituents. May produce an allergic reaction.
2.3 Other haza	ards
Results of PB	T and vPvB assessment
• PBT: Not appli	cable.
• vPvB: Not app	

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture consisting of the following components with harmless additives.

CAS: 1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	25-50%
EINECS: 216-823-5	 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 EUH205 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % 	
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide & Carc. 2, H351	5-10%
	Bisphenol F Diglycidylether, Isomerengemisch Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1A, H317	5-10%
CAS: 933999-84-9 EC number: 618-939-5 Reg.nr.: 01-2119463471-41	1,6-bis(2,3-epoxypropoxy)hexane Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 Aquatic Chronic 3, H412	5-10%
CAS: 100-51-6 EINECS: 202-859-9 Reg.nr.: 01-2119492630-38- xxxxx	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	2.5-5%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg	2.5-5%
CAS: 9003-36-5 NLP: 500-006-8 Reg.nr.: 01-2119454392-40- 0001	formaldehyde, oligomeric reaction products with 1- chloro-2,3-epoxypropane and phenol Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317 EUH205	0.5-1%

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information Instantly remove any clothing soiled by the product.

· After inhalation

Supply fresh air; consult doctor in case of symptoms.

In case of unconsciousness bring patient into stable side position for transport.

• After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

• After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

- After swallowing In case of persistent symptoms consult doctor.
 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

- [·] 5.1 Extinguishing media
- Suitable extinguishing agents

Use fire fighting measures that suit the environment.

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- 6.2 Environmental precautions:
- Do not allow product to reach sewage system or water bodies.
- Do not allow to enter the ground/soil.

Inform respective authorities in case product reaches water or sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

- 6.4 Reference to other sections
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

• **7.1 Precautions for safe handling** Keep containers tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

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- 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: Store only in the original container.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.

· Storage class 10

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm Long-term value: 123 mg/m³, 25 ppm Sk, BMGV

Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine Medium: urine

Sampling time: post shift

Parameter: butoxyacetic acid

· Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Appropriate engineering controls No further data; see item 7.

- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures
- The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- · Hand protection Protective gloves.
- Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Tightly sealed safety glasses.

· Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

General Information

· Colour:

According to product specification

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	(Contd. of page
Smell:	Characteristic
Boiling point or initial boiling point and	
boiling range	>200 °C (25068-38-6 reaction product: bisphene
	A-(epichlorhydrin) epoxy resin (number average
1	molecular weight = 700))
Lower and upper explosion limit	
Lower:	n.a. Vol %
Upper:	n.a. Vol %
Flash point:	>100 °C
Self-inflammability:	Product is not selfigniting.
Decomposition temperature:	Not determined.
рН at 20 °C Viscosity:	n.a.
	20.000 mPas
dynamic at 20 °C: Solubility	30,000 mPas
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log	
value)	Not determined.
Steam pressure at 23 °C:	>0 hPa
Density and/or relative density	- 0 m u
Density at 20 °C	1.4-1.6 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance: Form:	Elizia
	Fluid
Important information on protection of hea and environment, and on safety.	
Ignition temperature:	435 °C
Explosive properties:	Product is not explosive.
Solvent content:	
Solids content:	49.9 %
Change in condition	
Evaporation rate	Not determined.
•	
Information with regard to physical haza	ard
classes Explosives	Void
Explosives Elementelo geogra	
Flammable gases Aerosols	Void Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Son mouting Substances and mixtures	
Substances and mixtures which emit	
Substances and mixtures, which emit flammable gases in contact with water	Void
flammable gases in contact with water	Void Void
flammable gases in contact with water Oxidising liquids	Void
flammable gases in contact with water Oxidising liquids Oxidising solids	Void Void
flammable gases in contact with water	Void

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Desensitised explosives

Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

· Conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 • Acute toxicity Based on available data, the classification criteria are not met.

16/5-54-3	bis[4-(2,3	B-epoxypropoxy)phenyl]propane
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
100-51-6	Benzyl alc	ohol
Oral	LD50	1,230 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rbt)
111-76-2	2-butoxye	thanol
Oral	LD50	1,200 mg/kg (ATE)
		1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)
Inhalative	LC50/4 h	450 mg/l (rat)
9003-36-5	formalde phenol	hyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Skin corr Causes sk	kin irritation	
Causes se Germ cell Carcinogo Reproduc STOT-sin STOT-rep Aspiration Additional CMR effe	erious eye I mutagen enicity Bac ctive toxic gle expos peated exp n hazard E nl toxicolo cts (carcir	e/irritation irritation. icity Based on available data, the classification criteria are not met. sed on available data, the classification criteria are not met. ity Based on available data, the classification criteria are not met. ure Based on available data, the classification criteria are not met. oosure Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.
Causes se Germ cell Carcinogo Reproduc STOT-sin STOT-rep Aspiration Additiona CMR effe 11.2 Infor	erious eye I mutagen enicity Ba ctive toxic gle expos eated exp n hazard E n hazard E n toxicolo cts (carcir mation on	irritation. icity Based on available data, the classification criteria are not met. sed on available data, the classification criteria are not met. ity Based on available data, the classification criteria are not met. ure Based on available data, the classification criteria are not met. osure Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

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	Dxicity
-	c toxicity:
	-2 2-butoxyethanol
EC 50	1,840 mg/l (Pseudokirchneriella subcapitata (Alge))
	1,550 mg/l (Daphnia magna (Großer Wasserfloh))
	1,474 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
	6-5 formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane ar phenol
EC 50	1.8 mg/l (Desmodesmus subspicatus (Alge))
	1.6 mg/l (Daphnia magna (Großer Wasserfloh))
	>100 mg/l (bacteria)
	0.55 mg/l (Lepomis macrochirus (Fisch)) ersistence and degradability No further relevant information available.
12.6 EI For info 12.7 O Remar Additio Genera Also po Toxic fo Water I Do not	Not applicable. ndocrine disrupting properties prmation on endocrine disrupting properties see section 11. ther adverse effects k: Toxic for fish ponal ecological information: al notes: bisonous for fish and plankton in water bodies. bisonous for fish and plankton in water
SECT	ON 13: Disposal considerations
	aste treatment methods

· ADR, IMDG, IATA

UN3082

· 14.2 UN proper shipping name

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Safety data sheet according to 1907/2006/EC, Article 31

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	(Contd. of page
ADR	3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (reaction produc bisphenol-A-(epichlorhydrin) epoxy resin (numb average molecular weight = 700), formaldehyd oligomeric reaction products with 1-chloro-2, epoxypropane and phenol)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANC. LIQUID, N.O.S. (reaction product: bisphenol-, (epichlorhydrin) epoxy resin (number averag molecular weight = 700), formaldehyde, oligomen reaction products with 1-chloro-2,3-epoxypropar and phenol), MARINE POLLUTANT
ΙΑΤΑ	ENVIRONMENTALLY HAZARDOUS SUBSTANC LIQUID, N.O.S. (reaction product: bisphenol-, (epichlorhydrin) epoxy resin (number averag molecular weight = 700), formaldehyde, oligomer reaction products with 1-chloro-2,3-epoxypropar and phenol)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class Label	9 Miscellaneous dangerous substances ar articles. 9
14.4 Packing group ADR, IMDG, IATA	
14.5 Environmental hazards:	Product contains environmentally hazardou substances: reaction product: bisphenol-A (epichlorhydrin) epoxy resin (number averag molecular weight = 700)
Marine pollutant:	No Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances ar articles.
Kemler Number: EMS Number: Stowage Category	90 F-A,S-F A
14.7 Maritime transport in bulk accordin IMO instruments	ng to Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Transport category Tunnel restriction code	3 (-)
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (REACTIO PRODUCT: BISPHENOL-A-(EPICHLORHYDRII EPOXY RESIN (NUMBER AVERAGE

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MOLECULAR WEIGHT = 700), FORMALDEHYDE, **OLIGOMERIC REACTION PRODUCTS WITH 1-**CHLORO-2,3-EPOXYPROPANE AND PHENOL), 9. 111

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• Seveso category E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

· Contact: chemikalieninfo@murexin.com (+43 02622/27401)

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A Carc. 2: Carcinogenicity - Category 2

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* * Data compared to the previous version altered.