# SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

# **POXYCON A**

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

## 1.1. Product identifier

Product name	: POXYCON A
Registration number REACH	: Not applicable (mixture)
Product type REACH	: Mixture

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

**<u>1.2.1 Relevant identified uses</u>** Epoxy resin

## 1.2.2 Uses advised against

No uses advised against known

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

## Supplier of the safety data sheet

## Manufacturer of the product

Novatech International N.V. Industrielaan 5B B-2250 Olen ☎ +32 14 85 97 37 ➡ +32 14 85 97 38 info@tec7.be

## 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch):

+32 14 58 45 45 (BIG)

# SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classified as dange	erous according to	the criteria of Regulation (EC) No 1272/2008
Class	Category	Hazard statements
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

## 2.2. Label elements



Contains: reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700); formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol; [[(2-ethylhexyl)oxy]methyl]oxirane.

Signal word	Warning
H-statements	
H317	May cause an allergic skin reaction.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
P-statements	
P280	Wear protective gloves, protective clothing and eye protection/face protection.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 1.1; 5; 15 Revision number: 0401 Publication date: 2006-10-10 Date of revision: 2018-08-28 134-16239-623-en

P264

Wash hands thoroughly after handling. IF ON SKIN: Wash with plenty of water and soap.

P302 + P352 P333 + P313

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

If eye irritation persists: Get medical advice/attention.

P305 + P351 + P338

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313

2.3. Other hazards

No other hazards known

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 01-2119456619-26	25068-38-6 500-033-5	60% <c<80%< td=""><td>Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411</td><td>(1)(8)(10)</td><td>Constituent</td></c<80%<>	Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 2; H411	(1)(8)(10)	Constituent
formaldehyde, oligomeric reaction products with 1- chloro-2,3-epoxypropane and phenol 01-2119454392-40	9003-36-5 500-006-8	10% <c<20%< td=""><td>Skin Sens. 1; H317 Skin Irrit. 2; H315 Aquatic Chronic 2; H411</td><td>(1)(10)</td><td>Constituent</td></c<20%<>	Skin Sens. 1; H317 Skin Irrit. 2; H315 Aquatic Chronic 2; H411	(1)(10)	Constituent
benzyl alcohol 01-2119492630-38	100-51-6 202-859-9	5% <c<10%< td=""><td>Acute Tox. 4; H332 Acute Tox. 4; H302</td><td>(1)(2)(10)</td><td>Constituent</td></c<10%<>	Acute Tox. 4; H332 Acute Tox. 4; H302	(1)(2)(10)	Constituent
[[(2-ethylhexyl)oxy]methyl]oxirane	2461-15-6 219-553-6	1% <c<2.5%< td=""><td>Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aguatic Chronic 3; H412</td><td>(1)(10)</td><td>Constituent</td></c<2.5%<>	Skin Sens. 1; H317 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aguatic Chronic 3; H412	(1)(10)	Constituent

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

General:

## If you feel unwell, seek medical advice.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

## After skin contact:

Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms After inhalation: No effects known. After skin contact: Tingling/irritation of the skin. After eye contact: Irritation of the eye tissue. After ingestion: No effects known. 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

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# SECTION 5: Firefighting measures

## 5.1. Extinguishing media

## 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher. Major fire: Class B foam (not alcohol-resistant).

## 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide). May polymerize on exposure to temperature rise.

## 5.3. Advice for firefighters

## 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

## 5.3.2 Special protective equipment for fire-fighters:

Gloves. Face-shield. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

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

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing.

Suitable protective clothing

See heading 8.2

## 6.2. Environmental precautions

Contain released product. Dam up the solid spill. Prevent soil and water pollution. Prevent spreading in sewers.

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

Take up liquid spill into absorbent material, e.g.: sand. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with a soap solution. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

## 6.4. Reference to other sections

See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 7.1. Precautions for safe handling

Keep away from naked flames/heat. Gas/vapour heavier than air at 20°C. Observe very strict hygiene - avoid contact. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

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

### 7.2.1 Safe storage requirements:

Store in a cool area. Store in a dry area. Ventilation at floor level. Protect against frost. Meet the legal requirements.

- 7.2.2 Keep away from:
- Heat sources, oxidizing agents.

7.2.3 Suitable packaging material:

No data available

## 7.2.4 Non suitable packaging material:

No data available

## 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

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## 8.1. Control parameters

## 8.1.1 Occupational exposure

## a) Occupational exposure limit values

Germany	1	The substant of the		CC 000)	r
Benzylalkohol			<u>ge exposure limit 8 h (TR</u> ge exposure limit 8 h (TR		5 ppm 22 mg/m
b) National biological limit value			Be exposure inne on (m		22
f limit values are applicable and		low.			
2 Sampling methods					
Product name		Test	Number		
Benzyl Alcohol		OSHA	2009		
3 Applicable limit values when of f limit values are applicable and 4 DNEL/PNEC values DNEL/DMEL - Workers reaction product: bisphenol-A-(e	available these will be listed be	low.	ar weight ≤ 700)		
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effect		12.25 mg/m <sup>3</sup>		
	Acute systemic effects inh	alation	12.25 mg/m <sup>3</sup>		
	Long-term systemic effect	s dermal	8.33 mg/kg bw	ı/day	
	Acute systemic effects de		8.33 mg/kg bw	/day	
formaldehyde, oligomeric reacti	on products with 1-chloro-2,3-e	poxypropane and pho	enol		
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effect	s inhalation	29.39 mg/m <sup>3</sup>		
	Long-term systemic effect	s dermal	104.15 mg/kg	bw/day	
DMEL	Acute local effects derma		8.3 μg/cm <sup>2</sup>		
benzyl alcohol					
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effect	s inhalation	22 mg/m <sup>3</sup>		
	Acute systemic effects inh	alation	110 mg/m <sup>3</sup>		
	Long-term systemic effect	s dermal	8 mg/kg bw/da	av	
	Acute systemic effects de	rmal	40 mg/kg bw/c		
DNEL	Long-term systemic effect Acute systemic effects de		3.571 mg/kg b 3.571 mg/kg b		
	Long-term systemic effect	s oral	0.75 mg/kg bw		
	Acute systemic effects or	al	0.75 mg/kg bw	//day	
formaldehyde, oligomeric reaction	on products with 1-chloro-2,3-e	poxypropane and pho	enol		
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effect	s inhalation	8.7 mg/m <sup>3</sup>		
	Long-term systemic effect	s dermal	62.5 mg/kg bw	/day	
	Long-term systemic effect		6.25 mg/kg bw		
benzyl alcohol	· · · ·				
Effect level (DNEL/DMEL)	Туре		Value	Remark	
DNEL	Long-term systemic effect	s inhalation	5.4 mg/m <sup>3</sup>		
	Acute systemic effects inh	alation	27 mg/m <sup>3</sup>		
	Long-term systemic effect	s dermal	4 mg/kg bw/da	у	
	Acute systemic effects de	rmal	20 mg/kg bw/c	day	
	Long-term systemic effect	s oral	4 mg/kg bw/da		
	Acute systemic effects or	al	20 mg/kg bw/c	Jay	
PNEC					
reaction product: bisphenol-A-(e		ber average molecul			
Compartments	Value		Re	emark	
Fresh water	0.006 mg				
	0.001 mg				
Marine water	0.018 mg	/I			
Aqua (intermittent releases)					
Aqua (intermittent releases) STP	10 mg/l				
Aqua (intermittent releases)	0.996 mg	/kg sediment dw			
Aqua (intermittent releases) STP	0.996 mg 0.1 mg/kj	g sediment dw			
Aqua (intermittent releases) STP Fresh water sediment	0.996 mg 0.1 mg/kj	g sediment dw /kg soil dw			

formaldehyde, oligomeric reaction product	ts with 1-chloro-2,3-epoxypropane and phenol	
Compartments	Value	Remark
Fresh water	0.003 mg/l	
Marine water	0.0003 mg/l	
Aqua (intermittent releases)	0.0254 mg/l	
STP	10 mg/l	
Fresh water sediment	0.294 mg/kg sediment dw	
Marine water sediment	0.0294 mg/kg sediment dw	
Soil	0.237 mg/kg soil dw	
benzyl alcohol		•
Compartments	Value	Remark
Fresh water	1 mg/l	
Marine water	0.1 mg/l	
Aqua (intermittent releases)	2.3 mg/l	
STP	39 mg/l	
Fresh water sediment	5.27 mg/kg sediment dw	
Marine water sediment	0.527 mg/kg sediment dw	
Soil	0.456 mg/kg soil dw	

8.1.5 Control banding

If applicable and available it will be listed below.

## 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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

Observe very strict hygiene - avoid contact. Do not eat, drink or smoke during work.

## a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Gloves.

- materials (good resistance)

Nitrile rubber.

## c) Eye protection:

Safety glasses.

## d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical form	Liquid
Odour	Characteristic odour
	Mild odour
Odour threshold	No data available
Colour	Colourless
Particle size	Not applicable (liquid)
Explosion limits	No data available
Flammability	Non-flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	950 mPa.s ; 20 °C
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	> 100 °C
Evaporation rate	No data available
Relative vapour density	> 2
Vapour pressure	No data available
Solubility	Water ; insoluble
Relative density	1.2 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	435 ℃
Flash point	100 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties

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9.2. Other information

No data available

# Absolute density

1160 kg/m<sup>3</sup> ; 20 °C

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

Temperature above flashpoint: higher fire/explosion hazard.

## 10.2. Chemical stability

Unstable on exposure to heat.

## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

**Precautionary measures** 

Keep away from naked flames/heat.

## 10.5. Incompatible materials

Oxidizing agents.

## 10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide).

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

11.1.1 Test results

## Acute toxicity

## POXYCON A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

Route of exposure	Parameter	Method	Value	Exposure time			Remark
						determination	
Oral	LD50	OECD 420	> 2000 mg/kg		, ,	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg	24 h	,	Experimental value	
Inhalation (vapours)	LC0		0.000008 ppm	5 h		Experimental value	

## formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD	> 5000 mg/kg bw		Rat (male/female)	Experimental	
		401				value	
Dermal	LD50	Equivalent to OECD	> 2000 mg/kg bw	24 h	Rat (male/female)	Experimental	
		402				value	
Inhalation						Data waiving	
navl alcohol	•	•		•			

benzyl alcohol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50		1620 mg/kg		Rat (male)	Experimental	
			bw/day			value	
Dermal	LD50		> 2000 mg/kg		Rabbit	Inconclusive,	
						insufficient data	
Inhalation (aerosol)	LC50	OECD 403	> 4.178 mg/l air	4 h	Rat (male/female)	Experimental	
						value	

## **Conclusion**

Not classified for acute toxicity

## **Corrosion/irritation**

POXYCON A

No (test)data on the mixture available

Classification is based on the relevant ingredients

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Revision number: 0401

	Result	hydrin) epoxy resin (nu Method	Exposure time	Time point	Species	Value	Remark
			-		-	determination	
Eye	Irritating				Rabbit	Experimental value	
Skin	Irritating				Rabbit	Experimental value	
rmaldehyde, oligom	eric reaction proc	ucts with 1-chloro-2,3-	epoxypropane an	d phenol			
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Slightly irritating	Equivalent to OECD 404	4 h	4; 24; 48; 72 hours	Rabbit	Experimental value	
enzyl alcohol	I						
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405	24 h	24; 48; 72 hours	Rat	Experimental value	
Skin	Slightly irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
L Classification of th 2-ethylhexyl)oxy]m		batable as it does not c	orrespond to the	conclusion from the te	est		1
Route of exposure		Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Irritating; category 2					Literature study	
Skin	Irritating; category 2					Literature study	
<u>clusion</u> auses skin irritation. auses serious eye irr <b>tory or skin sensitis</b>							
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Reason for revision: 1.1; 5; 15

### VVCON л

	ction product: bisph Route of exposure		Method	Value	Organ	Effect	Exposure time	Species	Value
		, arameter		Fulue	organ	Lincot		opecies	determinatio
	Oral (stomach tube)	NOAEL	OECD 408	50 mg/kg bw/day		No effect	14 weeks (daily)	Rat (male/female	Experimental e) value
	Dermal	NOAEL	OECD 411	100 mg/kg		No adverse	13 weeks (3	Mouse (male	) Experimental
for	maldehyde, oligome		products with 1-c	bw/day	propage and r		times/week)		value
	Route of exposure		Method	Value	Organ	Effect	Exposure time	Species	Value
					- 0				determinatio
	Oral (stomach tube)	NOAEL	OECD 408	250 mg/kg bw/day		No effect	13 weeks (daily)	Rat (male/female	Experimental e) value
	Dermal								Data waiving
	Inhalation								Data waiving
ber	Route of exposure	Doromotor	Method	Value	Organ	Effect	Evposuro timo	Species	Value
	Route of exposure	Parameter	wiethod	value	Organ	Effect	Exposure time	species	determinatio
	Oral (stomach tube) Dermal	NOAEL	Equivalent to OECD 451	400 mg/kg bw/day		No effect	103 weeks (5 days/week)	Rat (male/female	-
	Inhalation (aerosol)	NOAEC	OECD 412	1072 mg/m <sup>3</sup> ai	r	No effect	4 weeks (6h/day,		Data waiving Experimental
nc	lusion						days/week)	(male/female	e) value
( <u>YC</u> No	<b>licity (in vitro)</b> <u>CON A</u> (test)data on the mi			, socia (ausobas		ular weight < 700			
	ction product: bisph Result		niornyarin) epox <b>/lethod</b>		Test substrat		ffect	Value	determination
	Negative with meta		DECD 472		Bacteria (S.ty		No effect		mental value
	activation, negative metabolic activatior	without						- · P - · ·	
	Positive with metab activation, positive metabolic activatior	without			Mouse (lymp cells)	homa L5178Y		Experii	mental value
for	maldehyde, oligome	ric reaction p	products with 1-c	hloro-2,3-epoxy	propane and p	<u>ohenol</u>			
	Result		/lethod		Test substrat		ffect		determination
	Positive with metab activation, positive metabolic activatior	without	DECD 473		Human lymp	nocytes		Experi	nental value
	Positive with metab activation	oolic C	DECD 471		Bacteria (S.ty	phimurium)		Experir	mental value
ber	izyl alcohol					1		1	
	Result		Aethod		Test substrat		ffect		determination
	Negative	E	quivalent to OEC	D 4/1	Bacteria (S.ty	phimurium)	lo effect	Experii	mental value
<u>XYC</u> No Jud	ilcity (in vivo) CON A (test)data on the mi gement is based on ction product: bisph	the relevant	ingredients hlorhydrin) epoxy		-		-		
	Result		Method		sure time	Test substra		in	Value determinat
	Negative		Chromoso aberration			Mouse (mal			Experimental valu
for	maldehyde, oligome	ric reaction p	products with 1-c	hloro-2,3-epoxy	propane and	ohenol			
	Result		Method		sure time	Test substra			Value determinat
	Negative		OECD 474	2 day	/(s)	Mouse (mal	e/temale) Bon	e marrow	Experimental valu
			Method	Expo	sure time	Test substra	ate Orga	in	Value determinat
	Result		Equivalent			Mouse (mal		e marrow	Experimental valu
	Result Negative		·						
ber	Negative Iusion	genic or genc	474				I		
ber onc	Negative	genic or genc	474				I		Į
onc Not	Negative Iusion : classified for mutag	genic or genc	474						

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)</u>

bw/day

toxicity study

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Oral	NOAEL	OECD 453	15 mg/kg/d - 100	104 weeks (daily)	Rat	No carcinogenic		Experimental
(stomach			mg/kg/d		(male/female)	effect		value
tube)								
ormaldehyde, o	oligomeric react	ion products with :	1-chloro-2,3-epoxy	propane and phenol	•			•
Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Dermal	NOAEL	Carcinogenic	> 800 mg/kg	104 weeks (2	Mouse	No carcinogenic		Experimental

times/week)

enzvl	alcohol	

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	- 0.	Value determination
Oral	-	•				No carcinogenic effect		Experimental value

(male/female)

effect

value

**Conclusion** 

Not classified for carcinogenicity

## Reproductive toxicity

## POXYCON A

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)</u>

ne Speci	ecies I	Effect	- 0-	Value determination
Rat (f	(female) I	No effect		Experimental value
Rat (f	(female) I	No effect		Experimental value
Rat (male		No effect		Experimental value
	(ma	(male/female)	(male/female)	

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
								determination
Developmental toxicity	NOAEL	OECD 414	180 mg/kg bw/day	13 day(s)	Rabbit	No effect	Foetus	Read-across
Maternal toxicity	NOAEL	OECD 414	60 mg/kg bw/day	13 day(s)	Rabbit	No effect	General	Experimental value
Effects on fertility	NOEL	OECD 416	750 mg/kg bw/day	238 day(s)	Rat (male/female)	No effect		Read-across

benzyl alcohol

	Parameter	Method	Value	Exposure time	Species	Effect	1.0.	Value determination
Developmental toxicity	NOAEL		550 mg/kg bw/day	10 days (gestation, daily)	Mouse	No effect	Foetus	Experimental value
Maternal toxicity	LOAEL		550 mg/kg bw/day	10 days (gestation, daily)	Mouse	Maternal toxicity		Experimental value
Effects on fertility	NOAEL		800 mg/kg bw/day	13 weeks (5 days/week)	Rat (male/female)	No effect		Experimental value

## **Conclusion**

Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

## POXYCON A

No (test)data on the mixture available

## Chronic effects from short and long-term exposure

## POXYCON A

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation.

Reason for revision: 1.1; 5; 15

Publication date: 2006-10-10 Date of revision: 2018-08-28

# SECTION 12: Ecological information

## 12.1. Toxicity

## POXYCON A

No (test)data on the mixture available

Classification is based on the relevant ingredients

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

	Parameter		Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	2.3 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	Equivalent to OECD 202	1.1 mg/l - 2.8 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	EPA 660/3 - 75/009	> 11 mg/l	72 h	Scenedesmus sp.	Static system	Fresh water	Experimental value
	NOEC	EPA 660/3 - 75/009	4.2 mg/l	72 h	Scenedesmus sp.	Static system	Fresh water	Experimental value
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	Equivalent to OECD 211	0.3 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms	IC50		> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; Nominal concentration
ormaldehyde, oligomeric reactior	products wit	n 1-chloro-2,3-e	poxypropane a	and phenol	•	•		•
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	1.9 mg/l	96 h	Brachydanio rerio	Semi-static system	Fresh water	Weight of evidence
Acute toxicity crustacea	EC50	OECD 202	3.5 mg/l	48 h	Daphnia magna	Static system	Fresh water	Weight of evidence; GLP
Toxicity algae and other aquatic plants	EC50	Equivalent to OECD 201	> 1.8 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value
Long-term toxicity aquatic crustacea	NOEC	Equivalent to OECD 211	0.3 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
	LOEC	Equivalent to OECD 211	1 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms	IC50		> 100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value
enzyl alcohol				•	•	•		•
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EPA OPP 72-1	460 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	230 mg/l	48 h	Daphnia magna		Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	770 mg/l	72 h	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic crustacea	NOEC	OECD 211	51 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP

## **Conclusion**

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Reason for revision: 1.1; 5; 15

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

## **Biodegradation water**

1		Value determination
5 %; Oxygen consumption	28 day(s)	Experimental value
Value	Conc. OH-radicals	Value determination
6.44 h	500000 /cm <sup>3</sup>	Calculated value
Value	Primary degradation/mineralisation	Value determination
86 h; pH = 7		Experimental value
,	Value 6.44 h Value	Value     Conc. OH-radicals       6.44 h     500000 /cm³       Value     Primary degradation/mineralisation       86 h; pH = 7     7

### **Biodegradation** water

Method	Value	Duration	Value determination
EU Method C.4	0 %	28 day(s)	Experimental value
lalf-life water (t1/2 water)			
Method	Value	Primary	Value determination
		degradation/mineralisation	
OECD 111: Hydrolysis as a function of pH	86 h; pH = 7		Read-across
nzyl alcohol			

### **Biodegradation water**

Method	Value	Duration	Value determination
OECD 301C: Modified MITI Test (I)	92 % - 96 %	14 day(s)	Experimental value

### **Conclusion**

Contains non readily biodegradable component(s)

### 12.3. Bioaccumulative potential

## POXYCON A

LOg	Kow	

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

<u>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight  $\leq$  700)</u>

BCF other aquatic organisms

Parameter	Method	1	Value	Duration	Species		Value determination
BCF			31; Fresh weight				Estimated value
Log Kow	og Kow						
Method		Remark		Value		Temperature	Value determination
OECD 117				2.64 - 3.78		25 °C	Experimental value

formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

## BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		150		Pisces	QSAR
Log Kow					
Method		Remark	Value	Temperature	Value determination
OECD 117			2.7 - 3.6		Experimental value
penzyl alcohol					
Log Kow					

 Method
 Remark
 Value
 Temperature
 Value determination

 1 - 1.1
 20 °C
 Experimental value

## **Conclusion**

No straightforward conclusion can be drawn based upon the available numerical values

## 12.4. Mobility in soil

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

(	log)	Кос	

Pa	Parameter M			Method Value			Value		Value determination	
lo	log Koc			SRC PCKOCWIN v2.0 2.65			QSAR			
Percent distribution										-
м	lethod	Fraction air	Fraction biota	Fraction		Fraction soil	Fraction	water	Value determi	ination
				sediment	t					
M	lackay level III	0 %		1.9 %		84.3 %	13.8 %		Calculated val	ue

Reason for revision: 1.1; 5; 15

Publication date: 2006-10-10 Date of revision: 2018-08-28

formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

(1	og) Koc						
	Parameter			Method		Value	Value determination
	log Koc			OECD 121		3.65	Experimental value
۷	olatility (Henry's Law constar	nt H)					
	Value	Method	Tem	perature	Remark		Value determination
	9.6E-7 Pa.m <sup>3</sup> /mol						QSAR

### **Conclusion**

Contains component(s) with potential for mobility in the soil Contains component(s) that adsorb(s) into the soil

## 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

### 12.6. Other adverse effects

### POXYCON A

## Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (IPCC) None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

## 13.1. Waste treatment methods

### 13.1.1 Provisions relating to waste

## **European Union**

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 01 11\* (wastes from MFSU and removal of paint and varnish: waste paint and varnish containing organic solvents or other hazardous substances).

Depending on branch of industry and production process, also other waste codes may be applicable.

### 13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

## 13.1.3 Packaging/Container

## **European Union**

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

## Road (ADR)

UN number	3082
4.2. UN proper shipping name	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
4.3. Transport hazard class(es)	
Hazard identification number	90
Class	9
Classification code	M6
4.4. Packing group	
Packing group	
Labels	9
4.5. Environmental hazards	
Environmentally hazardous substance mark	yes
4.6. Special precautions for user	
Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Reason for revision: 1.1; 5; 15

Publication date: 2006-10-10 Date of revision: 2018-08-28

Revision number: 0401

## Rail (RID)

UN number	3082
14.2. UN proper shipping name	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
14.3. Transport hazard class(es)	
Hazard identification number	90
Class	9
Classification code	M6
14.4. Packing group	
Packing group	Ш
Labels	9
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

## Inland waterways (ADN)

14.1. UN number	
UN number	3082
14.2. UN proper shipping name	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
14.3. Transport hazard class(es)	
Class	9
Classification code	M6
14.4. Packing group	
Packing group	III
Labels	9
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	274
Special provisions	335
Special provisions	375
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

# Sea (IMDG/IMSBC)

UN number	3082
14.2. UN proper shipping name	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
14.3. Transport hazard class(es)	
Class	9
14.4. Packing group	
Packing group	III
Labels	9
14.5. Environmental hazards	
Marine pollutant	Р
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	274
Special provisions	335
Special provisions	969
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
14.7. Transport in bulk according to Annex II of Marpol and the	IBC Code
for revision: 1.1; 5; 15	Publication date: 2006-10-10
	Date of revision: 2018-08-28

Annex II of MARPOL 73/78

Not applicable, based on available data

# Air (ICAO-TI/IATA-DGR)

r (ICAU-II/IATA-DGR)	
14. <u>1</u> . UN number	
UN number	3082
14.2. UN proper shipping name	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700))
14.3. Transport hazard class(es)	
Class	9
14.4. Packing group	
Packing group	III
Labels	9
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	A97
Special provisions	A158
Special provisions	A197
Limited quantities: maximum net quantity per packaging	30 kg G

## SECTION 15: Regulatory information

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

## European legislation:

VOC content Directive 2010/75/EU

	VOC content	Remark			
	8.09 %				
Eur	European drinking water standards (Directive 98/83/EC)				
r	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)				

re	action product: bisphenol-A-(epich	pichlorhydrin) epoxy resin (number average molecular weight ≤ 700)					
	Parameter	Parametric value	Note	Reference			
	Epichlorohydrin	0,1 μg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption.			

### **REACH Annex XVII - Restriction**

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol benzyl alcohol [[(2-ethylhexyl)oxy]methyl]oxirane	types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse	<ol> <li>Shall not be used in:         <ul> <li>ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>tricks and jokes,</li> <li>games for one or more participants, or any article intended to be used as such, even will ornamental aspects,</li> </ul> </li> <li>Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:             <ul> <li>can be used as fuel in decorative oil lamps for supply to the general public, and,</li></ul></li></ol>
son for revision: 1 1: 5: 15		Publication date: 2006-10-10

Reason for revision: 1.1; 5; 15

Publication date: 2006-10-10 Date of revision: 2018-08-28

H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'

## National legislation Belgium

POXYCON A No data available

# National legislation The Netherlands

POXYCON A

Waterbezwaarlijkheid

## National legislation France

POXYCON A

No data available

# National legislation Germany

WGK	2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender					
	Stoffe (VwVwS) of 27 July 2005 (Anhang 4) and Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen					
	(AwSV) of 18 April 2017					
reaction product: bisphenol-A	-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)					
TA-Luft	5.2.5; 1					
formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol						
TA-Luft	5.2.5; 1					
benzyl alcohol						
TA-Luft	5.2.5					
TRGS900 - Risiko der	Benzylalkohol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen					
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden					
Hautresorptive Stoffe	Benzylalkohol; H; Hautresorptiv					

## National legislation United Kingdom

POXYCON A

No data available

## Other relevant data

POXYCON A

No data available

## 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

A (2)

# **SECTION 16: Other information**

Full text of any H-stat	ements referred to under heading 3:							
H302 Harmful if s	H302 Harmful if swallowed.							
H315 Causes skin irritation.								
H317 May cause an allergic skin reaction.								
	H319 Causes serious eye irritation.							
	H332 Harmful if inhaled.							
	H411 Toxic to aquatic life with long lasting effects.							
H412 Harmful to	aquatic life with long lasting effects.							
(*)	INTERNAL CLASSIFICATION BY BIG							
CLP (EU-GHS)	Classification, labelling and packaging	Classification, labelling and packaging (Globally Harmonised System in Europe)						
DMEL	Derived Minimal Effect Level							
DNEL	Derived No Effect Level							
EC50	Effect Concentration 50 %							
ErC50	EC50 in terms of reduction of growth rate							
LC50	Lethal Concentration 50 %							
LD50	Lethal Dose 50 %							
NOAEL	No Observed Adverse Effect Level							
NOEC	No Observed Effect Concentration							
OECD	Organisation for Economic Co-operation and Development							
PBT	Persistent, Bioaccumulative & Toxic							
PNEC	Predicted No Effect Concentration							
STP	Sludge Treatment Process							
vPvB	very Persistent & very Bioaccumulative							
Specific concentration	limits CLP	- <b>-</b>						
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)		C ≥ 5%	Eye Irrit. 2; H319	CLP Annex VI (ATP				
		C ≥ 5 %	Skin Irrit. 2; H315	CLP Annex VI (ATP				
son for revision: 1.1; 5; 15			Publication date: 2006-10-:	10				

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this are a is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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