

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

Raychem Brand S1184 Adhesive, Part A

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

1.1 Product identifier:

: Raychem Brand S1184 Adhesive, Part A **Product name**

Registration number REACH : Not applicable (mixture)

Product type REACH : Mixture

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

1.2.1 Relevant identified uses

Epoxy resin Professional use

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

TYCO Electronics UK Ltd Faraday Road, Dorcan

SN3 5HH Swindon, United Kingdom

2 +44 1793 52 81 71 **4** +44 1793 57 25 16 REACH-ADM@te.com

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:

2.1.1 Classification according to Regulation EC No 1272/2008

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Skin Sens.	category 1	H317: May cause an allergic skin reaction.
Aquatic Acute	category 1	H400: Very toxic to aquatic life.
Aquatic Chronic	category 1	H410: Very toxic to aquatic life with long lasting effects.

2.1.2 Classification according to Directive 67/548/EEC-1999/45/EC

Classified as dangerous in accordance with the criteria of Directives 67/548/EEC and 1999/45/EC

Xi; R36/38 - Irritating to eyes and skin.

R43 - May cause sensitisation by skin contact.

N; R50-53 - Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

2.2 Label elements:

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





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

Signal word Warning

H-statements

H319 Causes serious eve irritation. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw

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H410 Very toxic to aquatic life with long lasting effects.

P-statements

P280 Wear protective gloves and eye protection.
P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

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 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards:

CLP

Material presenting a fire hazard

SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) 01-2119456619-26		<c<25%< td=""><td>R43 N; R51-53</td><td>Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411</td><td>(1)(8)(10)</td><td>Constituent</td></c<25%<>	R43 N; R51-53	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	(1)(8)(10)	Constituent
silver 01-2119555669-21	7440-22-4 231-131-3	C>30 %	· ·	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(9)	Constituent
Aromatic hydrocarbons, C8 01-2119486136-34	90989-38-1 292-694-9		Xi; R38 R10	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Asp. Tox. 1; H304 Skin Irrit. 2; H315	(1)(2)(10)	Constituent

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

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

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. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. 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:

Not a normal route of exposure. Vapours evolved during heat curing processes, and dust formed when grinding/sanding/cutting cured material, can cause: Irritation of the respiratory tract. Dry/sore throat. Coughing. Irritation of the nasal mucous membranes. Respiratory difficulties.

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Dust from grinding, sanding or cutting cured material can cause: Redness of the eye tissue. Irritation of the eye tissue. Lacrimation. Visual disturbances.

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⁽²⁾ Substance with a Community workplace exposure limit

⁽⁸⁾ Specific concentration limits, see heading 16

⁽⁹⁾ M-factor, see heading 16

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

After ingestion:

Not a normal route of exposure. Irritation of the gastric/intestinal mucosa. Nausea. Vomiting. Diarrhoea.

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

Solid water jet ineffective as extinguishing medium.

5.2 Special hazards arising from the substance or mixture:

Upon combustion CO and CO2 are formed and formation of metallic fumes.

5.3 Advice for firefighters:

5.3.1 Instructions:

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 leaking substance. Dam up the liquid 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 inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with a soap solution. 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 ignition sources/sparks. Observe very strict hygiene - avoid contact. Avoid contact with skin and eyes. Avoid inhaling vapours/fumes which may be released during use. Avoid inhaling dust when grinding/sanding/cutting cured material. Do not eat, drink or smoke in the work area. Wash hands after handling material. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

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. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements. Max. storage time: 6 month(s).

7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids, (strong) bases, amines.

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

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7.3 Specific end use(s):

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

Refer to TE Connectivity product installation instructions.

The curing process is exothermic (releases heat).

Part A can only be used with part B.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

The Netherlands

Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	49 ppm
Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	215 mg/m ³
Short time value (Public occupational exposure limit value)	97 ppm
Short time value (Public occupational exposure limit value)	430 mg/m ³
Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	48 ppm
Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	210 mg/m ³
Short time value (Public occupational exposure limit value)	100 ppm
Short time value (Public occupational exposure limit value)	442 mg/m³
Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.1 mg/m³
	occupational exposure limit value) Time-weighted average exposure limit 8 h (Public occupational exposure limit value) Short time value (Public occupational exposure limit value) Short time value (Public occupational exposure limit value) Time-weighted average exposure limit 8 h (Public occupational exposure limit value) Time-weighted average exposure limit 8 h (Public occupational exposure limit value) Short time value (Public occupational exposure limit value) Short time value (Public occupational exposure limit value) Time-weighted average exposure limit 8 h (Public occupational exposure limit value)

EU

Ethylbenzene	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	100 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	442 mg/m³
	Short time value (Indicative occupational exposure limit value)	200 ppm
	Short time value (Indicative occupational exposure limit value)	884 mg/m³
Xylene, mixed isomers, pure	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	50 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	221 mg/m³
	Short time value (Indicative occupational exposure limit value)	100 ppm
	Short time value (Indicative occupational exposure limit value)	442 mg/m³

Belgium

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Argent (métal)	Time-weighted average exposure limit 8 h	0.1 mg/m³
Ethylbenzène	Time-weighted average exposure limit 8 h	100 ppm
	Time-weighted average exposure limit 8 h	442 mg/m³
	Short time value	125 ppm
	Short time value	551 mg/m³
Xylène, isomères mixtes, purs	Time-weighted average exposure limit 8 h	50 ppm
	Time-weighted average exposure limit 8 h	221 mg/m³
	Short time value	100 ppm
	Short time value	442 mg/m³

USA (TLV-ACGIH)

		-	
Ethyl benzene	Time-weighted average exposure limit 8 h (TLV -	20 ppm	
	Adopted Value)		

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Silver, metal, dust and fume	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.1 mg/m³	
Xylene (all isomers)	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	100 ppm	
	Short time value (TLV - Adopted Value)	150 ppm	

Germany

Ethylbenzol	Time-weighted average exposure limit 8 h (TRGS 900)	20 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	88 mg/m³
Silber	Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m³
Xylol (alle Isomeren)	Time-weighted average exposure limit 8 h (TRGS 900)	100 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	440 mg/m³

France

riance			
Argent (métallique)	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	0.1 mg/m ³	
Ethylbenzène	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	20 ppm	
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	88.4 mg/m³	
	Short time value (VRC: Valeur réglementaire contraignante)	100 ppm	
	Short time value (VRC: Valeur réglementaire contraignante)	442 mg/m³	
Xylènes, isomères mixtes, purs	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	50 ppm	
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	221 mg/m³	
	Short time value (VRC: Valeur réglementaire contraignante)	100 ppm	
	Short time value (VRC: Valeur réglementaire contraignante)	442 mg/m³	

UK

Ethylbenzene	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	100 ppm	
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	441 mg/m ³	
	Short time value (Workplace exposure limit (EH40/2005))	125 ppm	
	Short time value (Workplace exposure limit (EH40/2005))	552 mg/m³	
Silver, metallic	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.1 mg/m ³	
Xylene, o-,m-,p- or mixed isomers	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	50 ppm	
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	220 mg/m ³	
	Short time value (Workplace exposure limit (EH40/2005))	100 ppm	
	Short time value (Workplace exposure limit (EH40/2005))	441 mg/m³	

b) National biological limit values

If limit values are applicable and available these will be listed below.

8.1.2 Sampling methods

If applicable and available it will be listed below.

Ethyl Benzene (Hydrocarbons, Aromatic)	NIOSH	1501
Ethyl Benzene	OSHA	7
Silver (Ag) (Elements)	NIOSH	7300
Silver (Ag) (Elements, aqua regia ashing)	NIOSH	7301

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Silver (Ag) (Elements, hot block/HCI/HNO3 digestion)	NIOSH	7303
Silver (Ag)	NIOSH	8005
Silver (Ag)	NIOSH	8310
Silver (Elements on wipes)	NIOSH	9102
Silver	OSHA	ID 121
Xylene (Hydrocarbons, aromatic)	NIOSH	1501
Xylene (Volatile Organic compounds)	NIOSH	2549

8.1.3 Applicable limit values when using the substance or mixture as intended

If limit values are applicable and available these will be listed below.

8.1.4 DNEL/PNEC values

DNEL - Workers

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

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Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	12.25 mg/m³	
	Acute systemic effects inhalation	12.25 mg/m³	
	Long-term systemic effects dermal	8.33 mg/kg bw/day	
	Acute systemic effects dermal	8.33 mg/kg bw/day	

silver

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	0.1 mg/m³	

Aromatic hydrocarbons, C8

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Acute systemic effects inhalation	289 mg/m³	
	Acute local effects inhalation	870 mg/m³	
	Long-term systemic effects dermal	180 mg/kg bw/day	
	Long-term systemic effects inhalation	77 mg/m³	

DNEL - General population

 $\underline{\text{reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight } \leq 700)$

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects dermal	3.571 mg/kg bw/day	
	Acute systemic effects dermal	3.571 mg/kg bw/day	
	Long-term systemic effects oral	0.75 mg/kg bw/day	
	Acute systemic effects oral	0.75 mg/kg bw/day	

silver

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	0.04 mg/m³	
	Long-term systemic effects oral	1.2 mg/kg bw/day	

Aromatic hydrocarbons, C8

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Acute systemic effects inhalation 174 mg/m³		
	Acute local effects inhalation	870 mg/m³	
	Long-term systemic effects dermal	108 mg/kg bw/day	
	Long-term systemic effects inhalation	14.8 mg/m³	
	Long-term systemic effects oral	1.6 mg/kg bw/day	

PNEC

 $\underline{reaction\ product:\ bisphenol-A-(epichlorhydrin)\ epoxy\ resin\ (number\ average\ molecular\ weight\ \le\ 700)}$

Compartments	Value	Remark
Fresh water	0.006 mg/l	
Marine water	0.0006 mg/l	
Aqua (intermittent releases)	0.018 mg/l	
STP	10 mg/l	
Fresh water sediment	0.996 mg/kg sediment dw	
Marine water sediment	0.0996 mg/kg sediment dw	
Soil	0.196 mg/kg soil dw	
Oral	11 mg/kg food	

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Compartments	Value	Remark
Fresh water	0.04 μg/l	
Marine water	0.86 μg/l	
STP	0.025 mg/l	
Fresh water sediment	438.13 mg/kg sediment dw	
Marine water sediment	438.13 mg/kg sediment dw	
Soil	1.41 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 ignition sources/sparks. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Curing ovens must be exhausted to outdoors or to suitable emission control device. Use local exhaust ventilation when grinding/sanding/cutting cured material.

8.2.2 Individual protection measures, such as personal protective equipment

Observe very strict hygiene - avoid contact. Avoid contact with skin and eyes. Avoid inhaling vapours/fumes which may be released during use. Avoid inhaling dust when grinding/sanding/cutting cured material. Do not eat, drink or smoke in the work area. Wash hands after handling material. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

 $In sufficient\ ventilation:\ we ar\ respiratory\ protection.$

b) Hand protection:

Gloves.

- materials (good resistance)

Nitrile rubber.

c) Eye protection:

Safety glasses. Use personal protective equipment as required by the risk assessment.

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	Viscous
Odour	Aromatic odour
Odour threshold	No data available
Colour	Silvery-grey
Particle size	No data available
Explosion limits	No data available
Flammability	Material presenting a fire hazard
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	> 150 °C
Flash point	77 °C
Evaporation rate	No data available
Relative vapour density	> 2
Vapour pressure	No data available
Solubility	water ; insoluble
Relative density	2.0
Decomposition temperature	No data available
Auto-ignition temperature	310 °C
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available

9.2 Other information:

Revision number: 0600

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity:

Temperature above flashpoint: higher fire/explosion hazard.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Reacts exothermically with many compounds e.g.: (strong) oxidizers and (strong) acids/bases.

10.4 Conditions to avoid:

Keep away from ignition sources/sparks.

10.5 Incompatible materials:

Oxidizing agents, (strong) acids, (strong) bases, amines.

10.6 Hazardous decomposition products:

Upon combustion CO and CO2 are formed and formation of metallic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

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

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

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Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50	OECD 401	> 5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50		>2000 mg/kg		Rat	Literature study	

Aromatic hydrocarbons, C8

Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50	Equivalent to OECD 423	3525 mg/kg		Rat (male)	Weight of evidence	
Oral	LD50	Equivalent to OECD 423	>4000 mg/kg		Rat (female)	Weight of evidence	
Dermal	LD50		>4200 mg/kg bw/day	4 h	Rabbit (male)	Weight of evidence	
Inhalation (vapours)	LC50	Equivalent to OECD 403	27.57 mg/l	4 h	Rat (male)	Experimental value	
Inhalation	LD50	Equivalent to OECD 403	6350 ppm	4 h	Rat (male)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

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Revision number: 0600 Product number: 25808 8 / 17

 $\underline{reaction\ product:\ bisphenol-A-(epichlorhydrin)\ epoxy\ resin\ (number\ average\ molecular\ weight\ \le\ 700)}$

Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72; 168 hours	Rabbit	Experimental value	Single exposure
Skin	Slightly irritating	OECD 404		1; 24; 48; 72; 168 hours	Rabbit	Experimental value	

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Route of exposure	Result	Method	Exposure time	Time point		Value determination	Remark
Eye	Not irritating	OECD 405	1 seconds	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

Aromatic hydrocarbons, C8

Route of exposure	Result	Method	Exposure time	Time point	- •	Value determination	Remark
1 '	Moderately irritating			24; 48; 72 hours	Rabbit	Weight of evidence	
1	Moderately irritating		24 h	24; 72 hours	Rabbit	Weight of evidence	

Classification is based on the relevant ingredients

Conclusion

Causes skin irritation.

Causes serious eye irritation.

Respiratory or skin sensitisation

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

 $\underline{\text{reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight } \leq 700)$

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 429		Mouse (female)	Experimental value	

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Route of exposure	Result	Method		Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Buehler test	3 week(s)	•	Guinea pig (male/female)	Weight of evidence	

Aromatic hydrocarbons, C8

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 429		Mouse	Weight of evidence	

Classification is based on the relevant ingredients

Conclusion

May cause an allergic skin reaction.

Specific target organ toxicity

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

 $\underline{\text{reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight } \leq 700)$

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (stomach tube)	NOAEL		50 mg/kg bw/day		No effect		l ' ' .	Experimental value
Dermal	NOAEL		100 mg/kg bw/day		No adverse systemic effects	,	,	Experimental value

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Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	 Value determination
Oral	NOAEL		30 mg/kg bw/day		No effect	13 weeks (daily)	Experimental value
Inhalation (dust)	NOAEC	OECD 413	133 μg/m³			13 weeks (6h/day, 5 days/week)	Experimental value

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Aromatic hydrocarbons, C8

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	- •	Value determination
Oral	I -		150 mg/kg bw/day	Liver	Weight gain	/ (- /		Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

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

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	OECD 472	Bacteria (S.typhimurium)	No effect	Experimental value
Positive		Mouse (lymphoma L5178Y cells)		Experimental value

<u>silver</u>

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic	OECD 487	Human lymphocytes	No effect	Experimental value
activation, negative without				
metabolic activation				

Aromatic hydrocarbons, C8

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 479	Chinese hamster ovary (CHO)		Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 475	Chinese hamster ovary (CHO)		Experimental value

Mutagenicity (in vivo)

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

 $\underline{reaction\ product:\ bisphenol-A-(epichlorhydrin)\ epoxy\ resin\ (number\ average\ molecular\ weight\ \le\ 700)}$

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Chromosome		Mouse (male)		Experimental value
	aberration assay				

Aromatic hydrocarbons, C8

OIIIC	atic frydrocarbons, co					
Re	sult	Method	Exposure time	Test substrate	Organ	Value determination
Ne	0	Equivalent to OECD 478		Mouse (male/female)		Experimental value
Ne	0	Equivalent to OECD 478		Rat (male/female)		Experimental value

Carcinogenicity

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

 $\underline{\text{reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight } \leq 700)$

Route of	Parameter	Method	Value	Exposure time	Species	Value	Organ	Effect
exposure						determination		
Dermal	NOEL	OECD 453	0, 0	104 weeks (3 times/week)	` '	Experimental value		No carcinogenic effect
Oral	NOAEL	OECD 453	15-100 mg/kg/d			Experimental value		No carcinogenic effect

Aromatic hydrocarbons, C8

Route of exposure	Parameter	Method	Value	Exposure time	- •	Value determination	Organ	Effect
Oral	_	Equivalent to OECD 451	J, J	(// -	Mouse (male/female)	Experimental value		No effect

Reproductive toxicity

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Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

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

	Parameter	Method	Value	Exposure time	Species	Effect	- 0-	Value determination
Developmental toxicity	NOAEL	OECD 414	> 540 mg/kg/d	6 - 15 days (gestation, daily)	Rat (female)	No effect	1	Experimental value
Maternal toxicity	NOAEL	OECD 414	180 mg/kg bw/day	6 - 15 days (gestation, daily)	Rat (female)	No effect		Experimental value
Effects on fertility	NOEL		50 - 540 mg/kg bw/day		Rat (male/female)	No effect	1	Experimental value

<u>silver</u>

	Parameter	Method	Value	Exposure time	Species	Effect	- 0	Value determination
Developmental toxicity	_		0, 0	14 days (gestation, daily)	Rat (female)	No effect		Experimental value

Aromatic hydrocarbons, C8

	Parameter	Method	Value	Exposure time	Species	Effect	- 0-	Value determination
Developmental toxicity	NOAEC	EPA OPPTS 870.3800	O,		Rat (male/female)	No effect		Experimental value
Effects on fertility	NOAEC (P)	EPA OPPTS 870.3800	>=500 ppm		Rat (male/female)	No effect		Experimental value
	NOAEC (F1)	EPA OPPTS 870.3800	>=1000 ppm		Rat (male/female)	No effect		Experimental value

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

Chronic effects from short and long-term exposure

Raychem Brand S1184 Adhesive, Part A

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Skin rash/inflammation. Swelling of the skin. Itching. May stain the skin. Blue/grey discolouration of the skin.

SECTION 12: Ecological information

12.1 Toxicity:

Raychem Brand S1184 Adhesive, Part A

No (test)data on the mixture available

 $\underline{\text{reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight } \leq 700)$

	Parameter	Method	Value	Duration	Species		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 invertebrates	EC50	Equivalent to OECD 202	1.1 - 2.8 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	EC50	EPA 660/3 - 75/009	9.4 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Biomass
Long-term toxicity aquatic invertebrates	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

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<u>silver</u>

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		1.2 μg/l	96 h		Semi-static system	Fresh water	Experimental value; Silver ion
Acute toxicity invertebrates	LC50		0.22 μg/l	48 h		Semi-static system	Fresh water	Experimental value; Silver ion
Toxicity algae and other aquatic plants	IC50	US EPA	4.61 μg/l	96 h	Pseudokirchnerie Ila subcapitata	Static system		Experimental value; Growth rate
Long-term toxicity fish	NOEC	ASTM E1241- 98	0.351 μg/l	32 day(s)		Flow-through system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic invertebrates	NOEC	US EPA	0.32 μg/l	21 day(s)		Semi-static system	Fresh water	Experimental value; Lethal

Aromatic hydrocarbons, C8

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
							water	
Acute toxicity invertebrates	EC50		1.0 mg/l	48 h	Daphnia magna			Literature
Toxicity algae and other aquatic	IC50		2.2 mg/l	72 h	Algae			Literature
plants								

Classification is based on the relevant ingredients

Conclusion

Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability:

 $\underline{reaction\ product:\ bisphenol-A-(epichlorhydrin)\ epoxy\ resin\ (number\ average\ molecular\ weight\ \le\ 700)}$

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	5 %	28 day(s)	Experimental value
OECD 301B: CO2 Evolution Test	6 - 12 %	28 day(s)	Experimental value

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.91	6.44 h	500000 /cm³	QSAR

Half-life water (t1/2 water)

Method		Primary degradation/mineralisation	Value determination
OECD 111: Hydrolysis as a function of pH	86 h		Experimental value

Conclusion

Contains non readily biodegradable component(s)

Method

12.3 Bioaccumulative potential:

Raychem Brand S1184 Adhesive, Part 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>

Value

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		3 - 31			QSAR

Log Kow

Method	Remark	Value	Temperature	Value determination
EU Method A.8			25 °C	Experimental value

silver

BCF fishes Parameter

og Kow					
Method	Remark		Value	Temperature	Value determination
	No data	available			

Species

Duration

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Value determination

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Aromatic hydrocarbons, C8

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		25.9			Literature

Log Kow

Method	Remark	Value	Temperature	Value determination
		3.2		

Conclusion

Does not contain bioaccumulative component(s)

12.4 Mobility in soil:

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

(log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	2.65	QSAR

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	0 %		1.9 %	84.3 %	13.8 %	Calculated value

Conclusion

Contains component(s) that adsorb(s) into the soil

Contains component(s) with potential for mobility in 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:

Raychem Brand S1184 Adhesive, Part A

Global warming potential (GWP)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ozone-depleting potential (ODP)

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

Aromatic hydrocarbons, C8

Ground water

Ground water pollutant

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

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other dangerous substances). Depending on branch of industry and production process, also other waste codes may be applicable. Hazardous waste according to Directive 2008/98/EC. Not classified as hazardous waste when part A and part B are mixed and are fully cured.

13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. 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

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)

14.1 UN number:

UN number	3082

14.2 UN proper shipping name:

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Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (silver)
14.3 Transport hazard class(es):	
Hazard identification number	90
Class	9
Classification code	M6
14.4 Packing group:	IVIO
	lui
Packing group	
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	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)
ail (RID)	-
14.1 UN number:	
UN number	3082
14.2 UN proper shipping name:	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (silver)
14.3 Transport hazard class(es):	<u> </u>
Hazard identification number	90
Class	9
	-
Classification code	M6
14.4 Packing group:	
Packing group	III
Labels	9
14.5 Environmental hazards:	
Environmentally hazardous substance mark	yes
	yes
14.6 Special precautions for user:	
Special provisions	274
Special provisions	335
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)
nland 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. (silver)
14.3 Transport hazard class(es):	7 Tr. 17 Tr. 17
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:	la-1
Special provisions	274
Special provisions	335
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)
ea (IMDG/IMSBC)	
14.1 UN number:	
UN number	3082
14.2 UN proper shipping name:	
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (silver)
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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Class	9
4.4 Packing group:	
Packing group	III
Labels	9
4.5 Environmental hazards:	
Marine pollutant	P
Environmentally hazardous substance mark	yes
4.6 Special precautions for user:	
Special provisions	274
Special provisions	335
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)
4.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Co	de:
Annex II of MARPOL 73/78	
ICAO-11/IA1A-DGR)	
(ICAO-TI/IATA-DGR) 4.1 UN number:	2002
4.1 UN number: UN number	3082
4.1 UN number: UN number 4.2 UN proper shipping name:	
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name	3082 Environmentally hazardous substance, liquid, n.o.s. (silver)
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es):	Environmentally hazardous substance, liquid, n.o.s. (silver)
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es): Class	
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es): Class 4.4 Packing group:	Environmentally hazardous substance, liquid, n.o.s. (silver)
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es): Class 4.4 Packing group: Packing group	Environmentally hazardous substance, liquid, n.o.s. (silver) 9
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es): Class 4.4 Packing group: Packing group Labels	Environmentally hazardous substance, liquid, n.o.s. (silver)
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es): Class 4.4 Packing group: Packing group	Environmentally hazardous substance, liquid, n.o.s. (silver) 9
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es): Class 4.4 Packing group: Packing group Labels 4.5 Environmental hazards:	Environmentally hazardous substance, liquid, n.o.s. (silver) 9 III 9
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es): Class 4.4 Packing group: Packing group Labels 4.5 Environmental hazards: Environmentally hazardous substance mark	Environmentally hazardous substance, liquid, n.o.s. (silver) 9 III 9
4.1 UN number: UN number 4.2 UN proper shipping name: Proper shipping name 4.3 Transport hazard class(es): Class 4.4 Packing group: Packing group Labels 4.5 Environmental hazards: Environmentally hazardous substance mark 4.6 Special precautions for user:	Environmentally hazardous substance, liquid, n.o.s. (silver) 9 III 9 yes

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	
0 - 1.96 %		

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.

The identified uses are not covered by restrictions of Annex XVII of Regulation (EC) No 1907/2006

National legislation The Netherlands

Raychem Brand S1184 Adhesive, Part A

Waste identification (the	LWCA (the Netherlands): KGA category 05
Netherlands)	
Waterbezwaarlijkheid	1

Aromatic hydrocarbons, C8

SZW - List of reprotoxic	Possibly hazardous to the foetus
substances (development)	

National legislation Germany

Raychem Brand S1184 Adhesive, Part A

WGK 3; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefähr			
Stoffe (VwVwS) of 27 July 2005 (Anhang 4)		Stoffe (VwVwS) of 27 July 2005 (Anhang 4)	
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)			
	TA-Luft	5.2.5; I	

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silver

Schwangerschaft Gruppe	D
MAK 8-Stunden-Mittelwert mg/m³	Silber; 0.1 mg/m³; gemessen als einatembare Fraktion (vgl. Abschn. Vd) S. 191)
TA-Luft	5.2.5;

Aromatic hydrocarbons, C8

MAK - Krebserzeugend Kategorie	4
Schwangerschaft Gruppe	D
Schwangerschaft Gruppe	С
MAK 8-Stunden-Mittelwert ppm	Ethylbenzol; 20 ppm
	Xylol (alle Isomeren); 100 ppm
MAK 8-Stunden-Mittelwert mg/m³	Ethylbenzol; 88 mg/m³
	Xylol (alle Isomeren); 440 mg/m³
TA-Luft	5.2.5;

National legislation France

Raychem Brand S1184 Adhesive, Part A

No data available

National legislation Belgium

Raychem Brand S1184 Adhesive, Part A

No data available

Other relevant data

Raychem Brand S1184 Adhesive, Part A

No data available

Aromatic hydrocarbons, C8

TLV - Carcinogen	Ethyl benzene; A3
IARC - classification	3; Xylenes
TLV - Carcinogen	Xylene (all isomers); A4

15.2 Chemical safety assessment:

No chemical safety assessment is required.

SECTION 16: Other information

Labelling according to Directive 67/548/EEC-1999/45/EC (DSD/DPD)

Labels





Dangerous for the

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

R-phrases

36/38 Irritating to eyes and skin

May cause sensitisation by skin contact

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S-phrases

24 Avoid contact with skin 37 Wear suitable gloves

60 This material and its container must be disposed of as hazardous waste

Avoid release to the environment. Refer to special instructions/safety data sheets.

Additional recommendations

Contains epoxy constituents. See information supplied by the manufacturer.

Full text of any R-phrases referred to under headings 2 and 3:

R10 Flammable

R20/21 Harmful by inhalation and in contact with skin

R36/38 Irritating to eyes and skin

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- R38 Irritating to skin
- R43 May cause sensitisation by skin contact
- R50 Very toxic to aquatic organisms
- R51 Toxic to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment
- R65 Harmful: may cause lung damage if swallowed

Full text of any H-statements referred to under headings 2 and 3:

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- (*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

Specific concentration limits CLP

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	C ≥ 5%	Eye Irrit. 2; H319	CLP Annex VI (ATP 0)
	C ≥ 5 %	Skin Irrit. 2; H315	CLP Annex VI (ATP 0)

Specific concentration limits DSD

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	C ≥ 5 %	Xi; R36/38	DSD Annex VI (ATP 0)
(number average molecular weight ≤ 700)			

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