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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 26.05.2017 / 0009

Replacing version dated / version: 13.12.2016 / 0008

Valid from: 26.05.2017 PDF print date: 30.05.2017 UVT 390 Top-Z 390 ML

Art.: 9041579

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

UVT 390 Top-Z 390 ML

Art.: 9041579

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

Compound mortar

Sector of use [SU]:

SU 0 - Other

SU 1 - Agriculture, forestry, fishery

SU19 - Building and construction work

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC 9b - Fillers, putties, plasters, modelling clay

Process category [PROC]:

PROC19 - Manual activities involving hand contact

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet



BTI Befestigungstechnik GmbH & Co. KG, Salzstr. 51, 74653 Ingelfingen, Germany Phone:+49 7940 141 256, Fax:+49 7940 141 9256

Stefan.Haug@bti.de, www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
STOT SE	3	H335-May cause respiratory irritation.
Eye Dam.	1	H318-Causes serious eye damage.
Skin Sens.	1	H317-May cause an allergic skin reaction.





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Repr. 1B H360F-May damage fertility.

Aquatic Chronic 2 H411-Toxic to aquatic life with long lasting effects. Skin Corr. 1C H314-Causes severe skin burns and eye damage.

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H335-May cause respiratory irritation. H317-May cause an allergic skin reaction. H360F-May damage fertility. H411-Toxic to aquatic life with long lasting effects. H314-Causes severe skin burns and eye damage.

P201-Obtain special instructions before use. P260-Do not breathe dust or mist. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection. P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313-IF exposed or concerned: Get medical advice / attention.

Restricted to professional users.

reaction product bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)

Bisphenol F epoxy resin

Trimethylolpropane triglycidyl ether

Portland cement

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

reaction product bisphenol A-(epichlorhydrin), epoxy	
resin (number average molecular weight <= 700)	
Registration number (REACH)	01-2119456619-26-XXXX
Index	603-074-00-8





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EINECS, ELINCS, NLP	500-033-5 (NLP)
CAS	25068-38-6
content %	25-50
Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
(CLP)	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Aquatic Chronic 2, H411

Portland cement	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	266-043-4
CAS	65997-15-1
content %	25-50
Classification according to Regulation (EC) 1272/2008	STOT SE 3, H335
(CLP)	Skin Irrit. 2, H315
	Eye Dam. 1, H318

Bisphenol F epoxy resin	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	28064-14-4
content %	10-25
Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
(CLP)	Skin Irrit. 2, H315
	Skin Sens. 1, H317
	Aquatic Chronic 2, H411

Trimethylolpropane triglycidyl ether	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	
CAS	30499-70-8
content %	5-10
Classification according to Regulation (EC) 1272/2008	Skin Corr. 1C, H314
(CLP)	Skin Sens. 1, H317
	Eye Dam. 1, H318
	Aquatic Chronic 2, H411
	Repr. 1B, H360F

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	219-784-2
CAS	2530-83-8
content %	2,5-10
Classification according to Regulation (EC) 1272/2008	Eye Dam. 1, H318
(CLP)	





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Alkenyl polyethylene glycolether phosphate (72243-	
070628, Germany)	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	n.a.
CAS	n.a.
content %	1-2,5
Classification according to Regulation (EC) 1272/2008	Eye Irrit. 2, H319
(CLP)	

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available. Protect uninjured eye.

Follow-up examination by an ophthalmologist

Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Corrosive burns on skin as well as mucous membrane possible.

Risk of serious damage to eyes.

Corneal damage.

Danger of blindness

Ingestion:

Pain in the mouth and throat

stomach pain

Oesophageal perforation

Gastric perforation

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.





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5.1 Extinguishing media

Suitable extinguishing media

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon Oxides of sulphur Oxides of nitrogen

Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes or skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.





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7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with oxidizing agents.

Do not store with alkalis.

Do not store with acids.

Protect from direct sunlight and warming.

Protect against moisture and store closed.

Store in a dry place.

Store in a well ventilated place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name Portland cement				Content %:25-50		
W	EL-TWA: 10 mg/m3 (to	tal inh. dust),	WEL-STEL:			
4 mg/m3 (res. dust)						
Monitoring procedures:						
				Other information:		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). \mid BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) \mid Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

reaction product bisph	reaction product bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)						
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note	
	Environmental		or				
	compartment						
	Environment -		PNEC	0,003	mg/l		
	freshwater						
	Environment - marine		PNEC	0,000	mg/l		
				3			
	Environment - water,		PNEC	0,018	mg/l		
	sporadic						
	(intermittent) release						





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	Environment - sewage treatment plant		PNEC	10	mg/l
	Environment - sediment, freshwater		PNEC	0,5	mg/kg dw
	Environment - sediment, marine		PNEC	0,5	mg/kg dw
	Environment - soil		PNEC	0,05	mg/kg dw
	Environment - oral (animal feed)		PNEC	11	mg/kg
Consumer	Human - dermal	Short term, systemic effects	DNEL	3,571	mg/kg bw/day
Consumer	Human - oral	Short term, systemic effects	DNEL	0,75	mg/kg bw/day
Consumer	Human - oral	Long term, systemic effects	DNEL	0,75	mg/kg bw/day
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,75	mg/m3
Consumer	Human - inhalation	Short term, systemic effects	DNEL	0,75	mg/m3
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	8,33	mg/kg bw/day
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	12,25	mg/m3
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	8,3	mg/kg bw/day
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	12,3	mg/m3

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane						
Area of application	Exposure route / Environmental	Effect on health	Descript or	Value	Unit	Note
	compartment		Or			
	Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	0,1	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	1	mg/l	
	Environment - sediment		PNEC	0,79	mg/kg dry weight	
	Environment - soil		PNEC	0,13	mg/kg dry weight	
Consumer	Human - dermal	Short term, systemic effects	DNEL	12,5	mg/kg bw/d	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	43,5	mg/m3	





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Consumer	Human - oral	Long term, systemic effects	DNEL	12,5	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	12,5	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	43,5	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	147	mg/m3	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	21	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	147	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	21	mg/kg bw/day	

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

If applicable

Face protection (EN 166)

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective gloves in butyl rubber (EN 374).

Safety gloves made of fluorocarbon rubber (EN 374).

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

>= 0.5

Permeation time (penetration time) in minutes:

> 120

Protective hand cream recommended.





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The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

If air supply is not sufficient, wear protective breathing apparatus.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Paste, Solid Colour: White Odour: Characteristic Odour threshold: Not determined pH-value: Not determined Melting point/freezing point: Not determined Not determined Initial boiling point and boiling range: >100 °C Flash point: Evaporation rate: Not determined Flammability (solid, gas): Not determined Lower explosive limit: Not determined Upper explosive limit: Not determined Vapour pressure: Not determined Vapour density (air = 1): Not determined Density: 1,5-1,6 g/cm3 (20°C) Bulk density: Not determined Solubility(ies): Not determined





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Water solubility: Not determined Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: No

Decomposition temperature:

Viscosity:

90-130 Pas (20°C)

Explosive properties:

Product is not explosive.

No

Oxidising properties:

9.2 Other information

Miscibility: Not determined
Fat solubility / solvent: Not determined
Conductivity: Not determined
Surface tension: Not determined
Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

None known

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral						n.d.a.
route:						
Acute toxicity, by						n.d.a.
dermal route:						
Acute toxicity, by						n.d.a.
inhalation:						
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						





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Germ cell mutagenicity:		n.d.a.
Carcinogenicity:		n.d.a.
Reproductive toxicity:		n.d.a.
Specific target organ		n.d.a.
toxicity - single		
exposure (STOT-SE):		
Specific target organ		n.d.a.
toxicity - repeated		
exposure (STOT-RE):		
Aspiration hazard:		n.d.a.
Symptoms:		n.d.a.

Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
•	nt					
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat		
route:						
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit		
dermal route:						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Irritant
					Dermal	
					Irritation/Corrosio	
~ .					n)	
Serious eye				Rabbit	OECD 405 (Acute	Irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
T				2.6	n)	a
Respiratory or skin				Mouse	OECD 429 (Skin	Sensitising
sensitisation:					Sensitisation -	
					Local Lymph Node Assay)	
Germ cell mutagenicity:					OECD 471	Positive
Germ cen mutagemeny.					(Bacterial Reverse	FUSITIVE
					Mutation Test)	
Carcinogenicity:			_	Rat	OECD 453	Negative
Caremogementy.				Rat	(Combined	regative
					Chronic	
					Toxicity/Carcinoge	
					nicity Studies)	
Specific target organ	NOAEL	50	mg/kg			
toxicity - repeated			bw/d			
exposure (STOT-RE):						
Specific target organ	NOAEL	100	mg/kg			
toxicity - repeated			bw/d			
exposure (STOT-RE):						
Symptoms:						diarrhoea,
						weight loss

Portland cement						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					





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Skin corrosion/irritation:	Irritant
Serious eye	Risk of
damage/irritation:	serious
	damage to
	eyes.
Serious eye	Intensively
damage/irritation:	irritant
Serious eye	Risk of
damage/irritation:	serious
	damage to
	eyes.
Respiratory or skin	Low-
sensitisation:	chromate
Respiratory or skin	Low-
sensitisation:	chromate,
	Not
	sensitizising
Respiratory or skin	Low-
sensitisation:	chromate
Specific target organ	Irritation of
toxicity - single	the
exposure (STOT-SE):	respiratory
	tract
Symptoms:	mucous
	membrane
	irritation
Specific target organ	Irritation of
toxicity - single	the
exposure (STOT-SE),	respiratory
inhalative:	tract

Trimethylolpropane triglycidyl ether							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	>2000	mg/kg				
route:							
Respiratory or skin				Guinea pig		Yes (skin	
sensitisation:						contact)	

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
	nt						
Acute toxicity, by oral	LD50	8025	mg/kg	Rat	OECD 401 (Acute		
route:					Oral Toxicity)		
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute		
dermal route:					Dermal Toxicity)		
Acute toxicity, by	LC50	5,3	mg/l	Rat	OECD 403 (Acute	Aerosol	
inhalation:					Inhalation		
					Toxicity)		





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Serious eye damage/irritation:				Rabbit	n) OECD 405 (Acute Eye Irritation/Corrosio n)	Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Negative
Carcinogenicity:					,	Negative
Reproductive toxicity:	NOAEL	1500	mg/kg/			
Aspiration hazard:						No
Symptoms:						acidosis, drop in blood pressure, vomiting, headaches, cramps, dizziness, visual disturbances, nausea
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	500	mg/kg	Rat	OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,225	mg/kg	Rat	OECD 412 (Subacute Inhalation Toxicity - 28-Day Study)	

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes	
12.1. Toxicity to							n.d.a.	
fish:								
12.1. Toxicity to							n.d.a.	
daphnia:								
12.1. Toxicity to							n.d.a.	
algae:								





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12.2. Persistence			n.d.a.
and degradability:			
12.3.			n.d.a.
Bioaccumulative			
potential:			
12.4. Mobility in			n.d.a.
soil:			
12.5. Results of			n.d.a.
PBT and vPvB			
assessment			
12.6. Other			n.d.a.
adverse effects:			

reaction product b	isphenol A-(e	pichlorh	ydrin), ej	oxy resin	(number averag	e molecular wei	ght <= 700)
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	1,2	mg/l	Oncorhynchus	U.S. EPA	
fish:					mykiss	ECOTOX	
						Database	
12.1. Toxicity to	EC50	48h	1,1	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	9,4	mg/l	Selenastrum	U.S. EPA	
algae:					capricornutum	ECOTOX	
					_	Database	
12.2. Persistence		28d	5	%		OECD 301 F	Not readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity -	
						Manometric	
						Respirometry	
						Test)	
12.3.	Log Pow		3,8				
Bioaccumulative							
potential:							

Trimethylolpropane triglycidyl ether							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	75	g/l			
fish:							

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC0	96h	30	mg/l	Cyprinus	Regulation	
fish:					caprio	(EC)	
						440/2008 C.1	
						(ACUTE	
						TOXICITY	
						FOR FISH)	





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12.1. Toxicity to fish:	LC50	96h	55	mg/l	Brachydanio rerio	Regulation (EC)	
11311.					10110	440/2008 C.1	
						(ACUTE	
						TOXICITY	
						FOR FISH)	
12.1. Toxicity to	EC50	48h	324	mg/l	Daphnia	U.S. EPA	
daphnia:	2000	.011	52.	1118/1	magna	ECOTOX	
- unpilitus					iiiigiiii	Database	
12.1. Toxicity to	NOEC/NO	21d	100	mg/l	Daphnia	OECD 202	
daphnia:	EL	210	100	1115/1	magna	(Daphnia sp.	
аарина.					magna	Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	7d	119	mg/l	Anabaena	U.S. EPA	
algae:	ECSO	/u	119	IIIg/1	flos-aquae	ECOTOX	
aigae.					110s-aquae	Database	
10.1 Torrigity to	NOEC/NO	7d	<50	mg/l	Anabaena	U.S. EPA	
12.1. Toxicity to	EL ROEC/NO	/u	< 30	IIIg/I		ECOTOX	
algae:	EL				flos-aquae	Database	
12.2. Persistence		28d	37	%	activated		Not moodily
		280	3/	%		Regulation	Not readily
and degradability:					sludge	(EC)	biodegradabl
						440/2008 C.4-	e
						A	
						(DETERMIN	
						ATION OF	
						'READY'	
						BIODEGRAD	
						ABILITY -	
						DOC DIE-	
						AWAY	
						TEST)	
12.2. Persistence	DOC	28d	37	%		Regulation	Not readily
and degradability:						(EC)	biodegradabl
						440/2008 C.4-	e
						A	
						(DETERMIN	
						ATION OF	
						'READY'	
						BIODEGRAD	
						ABILITY -	
						DOC DIE-	
						AWAY	
				<u> </u>		TEST)	
12.3.							Not to be
Bioaccumulative							expected
potential:							_
12.3.	Log Pow		0,5				
Bioaccumulative	_						
potential:							





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12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	NOEC/NO EL	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number: 1759

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1759 CORROSIVE SOLID, N.O.S. (TRIMETHYLOLPROPANE TRIGLYCIDYL ETHER)

14.3. Transport hazard class(es):814.4. Packing group:IIIClassification code:C10LQ:5 kg

14.5. Environmental hazards: environmentally

hazardous

Tunnel restriction code:







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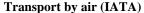
Transport by sea (IMDG-code)

14.2. UN proper shipping name:

CORROSIVE SOLID, N.O.S. (TRIMETHYLOLPROPANE TRIGLYCIDYL ETHER)

14.3. Transport hazard class(es):814.4. Packing group:IIIEmS:F-A, S-BMarine Pollutant:Yes

14.5. Environmental hazards: environmentally hazardous



14.2. UN proper shipping name:

Corrosive solid, n.o.s. (TRIMETHYLOLPROPANE TRIGLYCIDYL ETHER)

14.3. Transport hazard class(es): 8
14.4. Packing group: III

14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Regulation (EC) No 1907/2006, Annex XVII

Trimethylolpropane triglycidyl ether

Portland cement

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others

may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article 3(10) for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier requirements
E2		200	500

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

6 g/l

Observe incident regulations.









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Observe regulations on prohibition of chemicals.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 3, 4, 8, 11, 12, 14, 15, 16

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Employee training in handling dangerous goods is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
. ,	
STOT SE 3, H335	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.
Repr. 1B, H360F	Classification according to calculation procedure.
Aquatic Chronic 2, H411	Classification according to calculation procedure.
Skin Corr. 1C, H314	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H314 Causes severe skin burns and eye damage.

H360F May damage fertility.

H315 Causes skin irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Eye Dam. — Serious eye damage

Skin Sens. — Skin sensitization

Repr. — Reproductive toxicity

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Skin Corr. — Skin corrosion

Eye Irrit. — Eye irritation

Skin Irrit. — Skin irritation



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AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European

Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and

Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)

BMGVBiological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and

Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPACCollaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEA European Economic Area

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera



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EU European Union

EWC European Waste Catalogue

Fax. Fax number general gen.

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWPHalocarbon Global Warming Potential

IARC International Agency for Research on Cancer IATA International Air Transport Association

IBC Intermediate Bulk Container

International Bulk Chemical (Code) IBC (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform ChemicaL Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill

LCLo lowest published lethal concentration

Lethal Dose of a chemical

LD50 Lethal Dose, 50% kill

LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level

LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

Limited Ouantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available

National Institute of Occupational Safety and Health (United States of America) NIOSH

No Observed Adverse Effective Concentration **NOAEC**

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration

NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

organic org.

PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic

PC Chemical product category

Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

parts per million PROC Process category PTFE Polytetrafluorethylene

Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)





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REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.