

HIT-RE 100

Safety information for 2-Component-products

Issue date: 18/11/2022 Revision date: 18/11/2022

Supersedes: 11/05/2020

Version: 3.1

SECTION 1: Kit identification

1.1 Product identifier

Product name Product code HIT-RE 100 BU Anchor

1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti Deutschland AG Hiltistr. 2 86916 Kaufering - Deutschland T +49 8191 90-0 - F +49 8191 90-1122 de.kundenservice@hilti.com

SECTION 2: General information

Storage

Storage temperature : 5 - 25 °C

Germany	
Regulatory reference	WGK awg, Hazardous to water in general (Classification according to AwSV, Annex 1)
Storage class (LGK, TRGS 510)	LGK 6.1C - Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects
GISCODE	RE90 - Epoxy resin products, toxic for reproduction and/or mutagenic, sensitising, low in solvents or total solid

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

Classification of the Product

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

 Acute Tox. 4 (Oral)
 H302

 Skin Corr. 1B
 H314

 Eye Dam. 1
 H318

 Skin Sens. 1
 H317

 Muta. 2
 H341

 Repr. 1B
 H360F

 Aquatic Chronic 2
 H411

Full text of H- and EUH-statements: see section 16

Label elements

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



HIT-RE 100

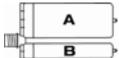
Kit Safety Information Sheet (SIS)

Hazard pictograms (CLP)	
	GHS05 GHS07 GHS08 GHS09
Signal word (CLP)	Danger
Hazardous ingredients	Epoxy resin, Amines
Hazard statements (CLP)	H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H341 - Suspected of causing genetic defects. H360F - May damage fertility. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P280 - Wear eye protection, protective clothing, protective gloves. P262 - Do not get in eyes, on skin, or on clothing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of water. P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
Extra phrases	

Extra phrases

Additional information

2-component-foilpack, contains: Component A: Epoxy resin, Reactive diluent, inorganic filler Component B: Amine hardener, inorganic filler



Name	General description	Quantity	Unit	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HIT-RE 100, A		1	pcs (pieces)	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360F Aquatic Chronic 2, H411
HIT-RE 100, B		1	pcs (pieces)	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412

SECTION 4: General information

General advice

For professional users only

SECTION 5: Safe handling advice

General measures	Spilled material may present a slipping hazard
Environmental precautions	Prevent entry to sewers and public waters Notify authorities if liquid enters sewers or public waters Avoid release to the environment Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. After curing, the product can be disposed of with household waste.
Storage conditions	Protect from sunlight. Store in a well-ventilated place.
Technical measures	Comply with applicable regulations



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Kit Safety Information Sheet (SIS)

Precautions for safe handling	Wear personal protective equipment Avoid contact with skin and eyes Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work Avoid contact during pregnancy/while nursing
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation Mechanically recover the product On land, sweep or shovel into suitable containers Store away from other materials.
For containment	Collect spillage.
Incompatible materials	Sources of ignition Direct sunlight
Incompatible products	Strong bases Strong acids

SECTION 6: First aid measures

First-aid measures after eye contact	Get immediate medical advice/attention. Immediately rinse with water for a prolonged period while holding the eyelids wide open Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist
First-aid measures after ingestion	Do not induce vomiting Rinse mouth Immediately call a POISON CENTER/doctor.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Wash with plenty of water/… Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get immediate medical advice/attention.
First-aid measures general	Never give anything by mouth to an unconscious person If you feel unwell, seek medical advice (show the label where possible)
Symptoms/effects	Causes severe skin burns and eye damage.
Symptoms/effects after eye contact	Causes serious eye damage.
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Other medical advice or treatment	Treat symptomatically

SECTION 7: Fire fighting measures

Firefighting instructions	Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment
Protection during firefighting	Self-contained breathing apparatus Do not enter fire area without proper protective equipment, including respiratory protection
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide Carbon monoxide

SECTION 8: Other information

No data available



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 18.11.2022 Revision date: 18.11.2022 Supersedes version of: 11.05.2020

Version: 2.1

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

1.1. Product identifier

Product form Product name Product code Mixture HIT-RE 100, B BU Anchor

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

1.2.1. Relevant identified uses

Industrial/Professional use spec Use of the substance/mixture

For professional use only Composite mortar component for fasteners in the construction industry

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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Supplier
Hilti Deutschland AG
Hiltistr. 2
DE– 86916 Kaufering
Deutschland
T +49 8191 90-0 - F +49 8191 90-11
de.kundenservice@hilti.com

Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 DE– 86916 Kaufering Deutschland T +49 8191 906876 anchor.hse@hilti.com

1.4. Emergency telephone number

Emergency number

Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)



Danger

Signal word (CLP) Contains

Hazard statements (CLP)

ethenylbenzene, resorcinol, m-Xylylenediamine

H314 - Causes severe skin burns and eye damage.

Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and



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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Precautionary statements (CLP)	H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects. P280 - Wear eye protection, protective clothing, protective gloves.
	P262 - Do not get in eyes, on skin, or on clothing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P302+P352 - IF ON SKIN: Wash with plenty of water.
	P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
m-Xylylenediamine (1477-55-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Formaldehyde, telomer with 1,3- benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
resorcinol (108-46-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
m-Xylylenediamine(1477-55-0)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
Formaldehyde, telomer with 1,3- benzenedimethanamine, 1,3-benzenediol and ethenylbenzene(710292-85-6)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605
resorcinol(108-46-3)	ED: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable



3.2. Mixtures

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Name	Product identifier	%	
m-Xylylenediamine	CAS-No.: 1477-55-0 EC-No.: 216-032-5 REACH-no: 01-2119480150- 50	25 - 40	
Formaldehyde, telomer with 1,3- benzenedimethanamine, 1,3-benzenediol and ethenylbenzene	CAS-No.: 710292-85-6 EC-No.: 615-240-7 REACH-no: 01-2119950341- 46	10 - 25	
resorcinol	CAS-No.: 108-46-3	0,1 - 1	

Formaldehyde, telomer with 1,3- benzenedimethanamine, 1,3-benzenediol and ethenylbenzene	CAS-No.: 710292-85-6 EC-No.: 615-240-7 REACH-no: 01-2119950341- 46	10 - 25	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
resorcinol substance with national workplace exposure limit(s) (DE); substance with a Community workplace exposure limit	CAS-No.: 108-46-3 EC-No.: 203-585-2 EC Index-No.: 604-010-00-1 REACH-no: 01-2119480136- 40	0,1 - 1	Acute Tox. 4 (Oral), H302 (ATE=301 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 1, H370 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Wash with plenty of water/ Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get immediate medical advice/attention.
First-aid measures after eye contact	Get immediate medical advice/attention. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist.
First-aid measures after ingestion	Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects	Causes severe skin burns and eye damage.
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	Causes serious eye damage.

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

Treat symptomatically.

SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.

EN (English)

Classification according to Regulation

Acute Tox. 4 (Inhalation:dust,mist), H332

Acute Tox. 4 (Oral), H302 (ATE=660

(EC) No. 1272/2008 [CLP]

mg/kg bodyweight)

(ATE=1,34 mg/l/4h) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412



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Unsuitable extinguishing media	Do not use a heavy water stream.
5.2. Special hazards arising from the substar	nce or mixture
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
5.3. Advice for firefighters	
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	Spilled material may present a slipping hazard.		
6.1.1. For non-emergency personnel			
Emergency procedures	Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection.		
Emergency procedures	Ventilate area.		
6.2 Environmental procautions			

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. Full or only
article and the preventies of the environment of the preventies of the environment. Full or only

partially emptied cartridges must be disposed of as special waste in accordance with official regulations. After curing, the product can be disposed of with household waste.

6.3. Methods and material for containment and cleaning up			
For containment	Collect spillage.		
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local		
	legislation. Mechanically recover the product. On land, sweep or shovel into suitable		
	containers. Store away from other materials.		
Other information	Dispose of materials or solid residues at an authorized site.		

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and sto	rage
7.1. Precautions for safe handling	
Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid contact during pregnancy/while nursing.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Technical measures	Comply with applicable regulations.
Storage conditions	Protect from sunlight. Store in a well-ventilated place.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Storage temperature	5 – 25 °C

Heat and ignition sources

Keep away from heat and direct sunlight.



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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information

The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

8.1.1. National occupational exposure and biological limit values

HIT-RE 100, B		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Resorcinol	
IOEL TWA	45 mg/m³	
IOEL TWA [ppm]	10 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Germany - Occupational Exposure Limits (TRGS 90	0)	
Local name	1,3-Dihydroxybenzol (Resorcin)	
AGW (OEL TWA) [1]	20 mg/m³ (E)	
AGW (OEL TWA) [2]	4 ppm	
Peak exposure limitation factor	1(I)	
Remark	AGS - Ausschuss für Gefahrstoffe; EU - Europäische Union (Von der EU wurde ein Luftgrenzwert festgelegt: Abweichungen bei Wert und Spitzenbegrenzung sind möglich); Sh - Hautsensibilisierender Stoff; Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden; H - hautresorptiv; 11 - Summe aus Dampf und Aerosolen	
Regulatory reference	TRGS900	
resorcinol (108-46-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Resorcinol	
IOEL TWA	45 mg/m ³	
IOEL TWA [ppm]	10 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	
Germany - Occupational Exposure Limits (TRGS 900)		
Local name	1,3-Dihydroxybenzol (Resorcin)	
AGW (OEL TWA) [1]	20 mg/m ³	
AGW (OEL TWA) [2] 4 ppm		
Peak exposure limitation factor	1(I)	
Remark	AGS,EU,Sh,Y,H	



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resorcinol (108-46-3)	
Regulatory reference	TRGS900
	-

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves. Avoid all unnecessary exposure. Protective clothing.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear security glasses which protect from splashes

Eye protection					
Type Field of application Characteristics Standard					
Safety glasses	Droplet	clear	EN 166, EN 170		

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing

Hand protection:

Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374

8.2.2.3. Respiratory protection

No additional information available



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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls: Avoid release to the environment. Consumer exposure controls:

Avoid contact during pregnancy/while nursing.

Other information:

Do not eat, drink or smoke during use.

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

5.1. Information on basic physical and chemi	cal properties
Physical state	Solid
Colour	Red-brown to black.
Appearance	Thixotropic paste.
Odour	Amine-like.
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Non flammable.
Explosive limits	Not applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
рН	11,5
pH solution	Not available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	43 – 57 Pa⋅s HN-0333
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	Not available
Vapour pressure at 50°C	Not available
Density	1,41 g/cm ³ DIN EN ISO 1183-3
Relative density	Not available
Relative vapour density at 20°C	Not applicable
Particle size	Not available
Particle size distribution	Not available
Particle shape	Not available
Particle aspect ratio	Not available
Particle aggregation state	Not available
Particle agglomeration state	Not available
Particle specific surface area	Not available
Particle dustiness	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes No additional information available



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9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide. Corrosive vapours.

SECTION 11: Toxicological information

Acute toxicity (oral) Harmful if swallowed.	11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (dermal) Not classified			
Acute toxicity (inhalation) Not classified			
HIT-RE 100, B			
ATE CLP (oral) 1706,776 mg/kg bodyweight			
Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenyl	benzene (710292-85-6)		
LD50 oral rat > 2000 mg/kg			
LD50 dermal rat > 2000 mg/kg			
resorcinol (108-46-3)			
LD50 oral 301 mg/kg			
m-Xylylenediamine (1477-55-0)			
LD50 oral rat 1090 mg/kg			
LD50 dermal rat > 3100 mg/kg			
LD50 dermal > 3100 mg/kg			
LC50 Inhalation - Rat (Dust/Mist) 1,34 mg/l/4h			
Skin corrosion/irritation On basis of test data			
Skin corrosion/irritationOn basis of test datapH: 11,5			
pH: 11,5			
pH: 11,5 Serious eye damage/irritation Causes serious eye damage.			



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Additional information	Based on available data, the classification criteria are not met
Carcinogenicity	Not classified
Additional information	Based on available data, the classification criteria are not met
resorcinol (108-46-3)	
IARC group	3 - Not classifiable
Reproductive toxicity	Not classified
Additional information	Based on available data, the classification criteria are not met
STOT-single exposure	Not classified
Additional information	Based on available data, the classification criteria are not met
resorcinol (108-46-3)	
STOT-single exposure	Causes damage to organs (central nervous system, blood) (oral). May cause damage to organs (respiratory system) (oral).
STOT-repeated exposure	Not classified
Additional information	Based on available data, the classification criteria are not met
Aspiration hazard	Not classified
Additional information	Based on available data, the classification criteria are not met
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties Adverse health effects caused by endocrine disrupting properties	No additional information available
11.2.2. Other information Potential adverse human health effects and symptoms	No additional information available

SECTION 12: Ecological information

12.1. Toxicity		
Ecology - water Hazardous to the aquatic environment, short–term (acute)	Harmful to aquatic life with long lasting effects. Not classified	
Hazardous to the aquatic environment, long–term (chronic)	Harmful to aquatic life with long lasting effects.	
Formaldehyde, telomer with 1,3-benzenedimethana	mine, 1,3-benzenediol and ethenylbenzene (710292-85-6)	
LC50 - Fish [1]	≥ 50 mg/l	
LC50 - Other aquatic organisms [1]	≥ 31,8 mg/l	
EC50 - Crustacea [1]	2,4 mg/l	
NOEC chronic algae	6,25 mg/l	
resorcinol (108-46-3)		
EC50 - Crustacea [1]	1,28 mg/l	
m-Xylylenediamine (1477-55-0)		
LC50 - Fish [1]	75 mg/l	
LC50 - Other aquatic organisms [1]	20,3 ppb	
EC50 - Crustacea [1]	15 mg/l	



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m-Xylylenediamine (1477-55-0)	m-Xylylenediamine (1477-55-0)		
LOEC (chronic)	15 mg/l		
NOEC (acute)	10,5 mg/kg		
NOEC (chronic)	4,7 mg/l		
NOEC chronic crustacea	4,7 mg/l		
12.2. Persistence and degradability			
HIT-RE 100, B			
Persistence and degradability	May cause long-term adverse effects in the environment.		
12.3. Bioaccumulative potential			
HIT-RE 100, B			
Bioaccumulative potential	Not established.		
Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)			
Bioconcentration factor (BCF REACH)	≥ 12,9		
Partition coefficient n-octanol/water (Log Pow)	5,14		
12.4. Mobility in soil			
No additional information available			
12.5. Results of PBT and vPvB assessment			
HIT-RE 100, B			
This substance/mixture does not meet the PBT criteria	of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII			
12.6. Endocrine disrupting properties			
No additional information available			
12.7. Other adverse effects			
Additional information	Avoid release to the environment.		

13.1. Waste treatment methods	
Regional legislation (waste)	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	After curing, the product can be disposed of with household waste Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.
European List of Waste (LoW) code	08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances
	20 01 27* - paint, inks, adhesives and resins containing dangerous substances



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HP Code

HP3 - "Flammable:"

- flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and \leq 75 °C;
- flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
 flammable solid waste: solid waste which is readily combustible or may cause or

- naminable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;

- flammable gaseous waste: gaseous waste which is flammable in air at 20 $^\circ\text{C}$ and a standard pressure of 101.3 kPa;
- water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
- other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	ADR IMDG IATA		RID
14.1. UN number or ID num	ber		1
UN 3259	UN 3259	UN 3259	UN 3259
14.2. UN proper shipping n	ame		
AMINES, SOLID, CORROSIVE, N.O.S. (m- Xylylenediamine)	AMINES, SOLID, CORROSIVE, N.O.S. (m- Xylylenediamine)	Amines, solid, corrosive, n.o.s. (m-Xylylenediamine)	AMINES, SOLID, CORROSIVE, N.O.S. (m Xylylenediamine)
Transport document descr	iption		
UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (m- Xylylenediamine), 8, II, (E)	UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (m- Xylylenediamine), 8, II	UN 3259 Amines, solid, corrosive, n.o.s. (m- Xylylenediamine), 8, II	UN 3259 AMINES, SOLIE CORROSIVE, N.O.S. (m Xylylenediamine), 8, II
14.3. Transport hazard clas	ss(es)		
8	8	8	8
B	B	B	8
14.4. Packing group	11		
II	II	Ш	II
14.5. Environmental hazard	ls		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary informatio	n available		1
14.6. Special precaution			

C8
274
1kg



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Packing instructions (ADR) Mixed packing provisions (ADR) Transport category (ADR) Orange plates Tunnel restriction code (ADR)	P002, IBC08 MP10 2 80 3259
runner restriction code (ADR)	E
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Packing instructions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No	274 1 kg P002 F-A S-B A 154
Air transport	
PCA packing instructions (IATA)	859
PCA max net quantity (IATA)	15kg
CAO packing instructions (IATA)	863
Special provisions (IATA)	A3
Rail transport Special provisions (RID) Limited quantities (RID) Packing instructions (RID)	274 1kg P002, IBC08

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	m-Xylylenediamine
3(c)	m-Xylylenediamine

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)



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POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

 Germany
 RE90 - Epoxy resin products, toxic for reproduction and/or mutagenic, sensitising, low in solvents or total solid.

 Water hazard class (WGK)
 WGK awg, Hazardous to water in general (Classification according to AwSV, Annex 1).

 Storage class (LGK, TRGS 510)
 LGK 8A - Combustible corrosive substances.

 Hazardous Incident Ordinance (12. BImSchV)
 Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	SDS EU format according to COMMISSION REGULATION (EU) 2020/878	Modified	

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	



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Abbreviations and acronyms:		
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

Other information

None.

Full text of H- and EUH-statements:		
Acute toxicity (inhalation:dust,mist) Category 4		
Acute toxicity (oral), Category 4		
Hazardous to the aquatic environment – Acute Hazard, Category 1		
Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Serious eye damage/eye irritation, Category 1		
Harmful if swallowed.		
Causes severe skin burns and eye damage.		
Causes skin irritation.		
May cause an allergic skin reaction.		
Causes serious eye damage.		
Harmful if inhaled.		
Causes damage to organs.		
May cause damage to organs.		
Very toxic to aquatic life.		
Toxic to aquatic life with long lasting effects.		
Harmful to aquatic life with long lasting effects.		
Skin corrosion/irritation, Category 1, Sub-Category 1B		
Skin corrosion/irritation, Category 2		



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Full text of H- and EUH-statements:		
Skin Sens. 1 Skin sensitisation, Category 1		
Skin Sens. 1B	B Skin sensitisation, category 1B	
STOT SE 1	Specific target organ toxicity – single exposure, Category 1	
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2	

Classification and procedure used to derive the classification for mix	4	
I Classification and procedure lised to derive the classification for mix	TUPES according to Regulation (EC) 12/2/2008 ICI PI	

Acute Tox. 4 (Oral)	H302	Calculation method
Skin Corr. 1B	H314	On basis of test data
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 3	H412	Expert judgment

SDS_EU_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 18.11.2022 Revision date: 18.11.2022 Supersedes version of: 11.05.2020

Version: 3.1

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

1.1. Product identifier

Product form Product name Product code

Mixture HIT-RE 100, A **BU** Anchor

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

1.2.1. Relevant identified uses

Industrial/Professional use spec Use of the substance/mixture

For professional use only Composite mortar component for fasteners in the construction industry

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier
Hilti Deutschland AG
Hiltistr. 2
DE– 86916 Kaufering
Deutschland
T +49 8191 90-0 - F +49 8191 90-1122
de.kundenservice@hilti.com

Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 DE- 86916 Kaufering Deutschland T +49 8191 906876 anchor.hse@hilti.com

1.4. Emergency telephone number

Emergency number

Schweizerisches Toxikologisches Informationszentrum - 24h Service +41 44 251 51 51 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Skin corrosion/irritation, Category 1, Sub-Category 1C	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Germ cell mutagenicity, Category 2	H341
Reproductive toxicity, Category 1B	H360F
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)



Signal word (CLP)



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Contains	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Reaction products of hexane-1,6-diol with 2-(chloromethyl), 1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane, Formaldehyde, oligomeric reaction products with 1-chloro-2,3-
Hazard statements (CLP)	epoxypropane and phenol H314 - Causes severe skin burns and eye damage.
Hazaru statements (CLP)	, ,
	H317 - May cause an allergic skin reaction.
	H341 - Suspected of causing genetic defects.
	H360F - May damage fertility.
	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	P280 - Wear eye protection, protective clothing, protective gloves.
	P262 - Do not get in eyes, on skin, or on clothing.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P302+P352 - IF ON SKIN: Wash with plenty of water.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII Contains no PBT/vPvB substances \geq 0.1% assessed in accordance with REACH Annex XIII

Component		
2,2'-[(1-methylethylidene)bis(4,1-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
phenyleneoxymethylene)]bisoxirane (1675-54-3)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Formaldehyde, oligomeric reaction products with 1-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
chloro-2,3-epoxypropane and phenol (9003-36-5)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Reaction products of hexane-1,6-diol with 2-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
(chloromethyl) (933999-84-9)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
with 2-(chloromethyl)oxirane (30499-70-8)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component		
2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane(1675-54-3)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
Formaldehyde, oligomeric reaction products with 1- chloro-2,3-epoxypropane and phenol	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
Reaction products of hexane-1,6-diol with 2- (chloromethyl)(933999-84-9)	The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	



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Component			
1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer	The substance is not included in the list established in accordance with Article 59(1) of		
with 2-(chloromethyl)oxirane	REACH for having endocrine disrupting properties, or is not identified as having endocrine		
	disrupting properties in accordance with the criteria set out in Commission Delegated		
	Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605		

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	CAS-No.: 1675-54-3 EC-No.: 216-823-5 REACH-no: 01-2119456619- 26	25 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Formaldehyde, oligomeric reaction products with 1- chloro-2,3-epoxypropane and phenol	REACH-no: 01-2119454392- 40	10 – 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Reaction products of hexane-1,6-diol with 2- (chloromethyl)	CAS-No.: 933999-84-9 EC-No.: 618-939-5 EC Index-No.: 01- 2119463471-41 REACH-no: 01-2119463471- 41	10 - 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane	REACH-no: 01-2120078341- 60	5 – 10	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341 Repr. 1B, H360F Aquatic Chronic 2, H411

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	CAS-No.: 1675-54-3 EC-No.: 216-823-5 REACH-no: 01-2119456619- 26	(5 ≤C < 100) Skin Irrit. 2, H315 (5 ≤C < 100) Eye Irrit. 2, H319

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).



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First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get immediate medical advice/attention.
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effects, both acute and delayed	

Symptoms/effects after skin contactCauses skin irritation. May cause an allergic skin reaction.Symptoms/effects after eye contactCauses serious eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media	
Suitable extinguishing media	Water spray. Carbon dioxide. Dry powder. Foam. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.
5.2. Special hazards arising from the substa	nce or mixture
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
5.3. Advice for firefighters	
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipm	ent and emergency procedures		
General measures	Spilled material may present a slipping hazard.		
6.1.1. For non-emergency personnel			
Emergency procedures	Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection.		
Emergency procedures	Ventilate area.		

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. After curing, the product can be disposed of with household waste.

6.3. Methods and material for containment and cleaning up		
For containment	Collect spillage.	
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local	
	legislation. Mechanically recover the product. On land, sweep or shovel into suitable	
	containers. Store away from other materials.	
Other information	Dispose of materials or solid residues at an authorized site.	



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6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and stora	ge
7.1. Precautions for safe handling	
Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	Protect from sunlight.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Storage temperature	5 – 25 °C
Heat and ignition sources	Keep away from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional information

The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves. Avoid all unnecessary exposure. Protective clothing.



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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear security glasses which protect from splashes

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

8.2.2.2. Skin protection

Skin and body protection:

Long sleeved protective clothing

Hand protection:

Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN ISO 374

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Consumer exposure controls:

Avoid contact during pregnancy/while nursing.

Other information:

Do not eat, drink or smoke during use. No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Colour
Appearance
Odour
Odour threshold
Melting point
Freezing point

Solid Light grey. Thixotropic paste. characteristic. Not available Not available Not available



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Boiling point Not available Flammability Explosive properties Explosive limits Lower explosion limit Upper explosion limit Flash point Auto-ignition temperature Decomposition temperature pН pH solution Viscosity, kinematic Viscosity, dynamic Solubility Partition coefficient n-octanol/water (Log Kow) Vapour pressure Vapour pressure at 50°C Density Relative density Relative vapour density at 20°C Particle size Particle size distribution Particle shape Particle aspect ratio Particle aggregation state Particle agglomeration state Particle specific surface area Particle dustiness

Non flammable. Product is not explosive. Not applicable Not applicable Not applicable Not applicable Not applicable Not available 6.2 Not available Not applicable 36 – 53 Pa·s HN-0333 insoluble in water. Not available Not available Not available 1,46 g/ml DIN EN ISO 1183-3 Not available Not applicable Not available Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide.



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11.1. Information on hazard classes as def	ined in Regulation (EC) No 1272/2008
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxyr	nethylene)]bisoxirane (1675-54-3)
LD50 oral rat	> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
Reaction products of hexane-1,6-diol with 2-(ch	loromethyl) (933999-84-9)
LD50 oral rat	3010 mg/kg
LD50 dermal rat	> 2000 mg/kg
Formaldehyde, oligomeric reaction products wi	th 1-chloro-2,3-epoxypropane and phenol
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; ECHA)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; ECHA)
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	pH: 6,2 Causes serious eye damage.
	pH: 6,2
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	Not classified
Additional information	Based on available data, the classification criteria are not met
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxyr	nethylene)]bisoxirane (1675-54-3)
IARC group	3 - Not classifiable
Reproductive toxicity	May damage fertility.
STOT-single exposure	Not classified
Additional information	Based on available data, the classification criteria are not met
STOT-repeated exposure	Not classified
Additional information	Based on available data, the classification criteria are not met Not classified
Aspiration hazard Additional information	Based on available data, the classification criteria are not met
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
Adverse health effects caused by endocrine disrupting properties	No additional information available
11.2.2. Other information	
Potential adverse human health effects and	No additional information available

SECTION 12: Ecological information

12.1. Toxicity Ecology - water

Toxic to aquatic life with long lasting effects.



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Hazardous to the aquatic environment, short-term	Not classified
(acute) Hazardous to the aquatic environment, long–term (chronic)	Toxic to aquatic life with long lasting effects.
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxyme	thylene)]bisoxirane (1675-54-3)
LC50 - Fish [1]	1,2 mg/l (96 h; Oncorhynchus mykiss; Lethal)
LC50 - Fish [2]	2,3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)
EC50 - Crustacea [1]	2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)
EC50 72h - Algae [1]	9,4 mg/l (EPA 660/3 - 75/009, Selenastrum capricornutum, Static system, Fresh water, Experimental value, Biomass)
Threshold limit - Algae [1]	> 11 mg/l (72 h; Scenedesmus sp.)
Threshold limit - Algae [2]	4,2 mg/l (72 h; Scenedesmus sp.)
Reaction products of hexane-1,6-diol with 2-(chlor	romethyl) (933999-84-9)
LC50 - Fish [1]	30 mg/l
LC50 - Other aquatic organisms [1]	23,1 mg/l
EC50 - Crustacea [1]	47 mg/l
NOEC (acute)	18 mg/l
12.2. Persistence and degradability	
HIT-RE 100, A	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
HIT-RE 100, A	
Bioaccumulative potential	Not established.
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxyme	thylene)]bisoxirane (1675-54-3)
Partition coefficient n-octanol/water (Log Pow)	≥ 2,918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).
12.4. Mobility in soil	
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxyme	thylene)]bisoxirane (1675-54-3)
Surface tension	59 mN/m (20 °C, 0.09 g/l)
Ecology - soil	No (test)data on mobility of the substance available.
12.5. Results of PBT and vPvB assessment	
HIT-RE 100, A	
This substance/mixture does not meet the PBT criteri	a of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criter	ia of REACH regulation, annex XIII
12.6 Endocrino disrupting properties	

12.6. Endocrine disrupting properties

No additional information available



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12.7. Other adverse effects

Additional information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Regional legislation (waste)	Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	After curing, the product can be disposed of with household waste Full or only partially
	emptied cartridges must be disposed of as special waste in accordance with official
	regulations. Packaging contaminated by the product : Dispose in a safe manner in
	accordance with local/national regulations.
Ecology - waste materials	Avoid release to the environment.
European List of Waste (LoW) code	08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous
	substances
	20 01 27* - paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number or ID num	ber		
UN 1759	UN 1759	UN 1759	UN 1759
14.2. UN proper shipping n	ame	·	
CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)	Corrosive solid, n.o.s. (trimethylolpropane triglycidylether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)
Transport document descr	iption		
UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, MARINE POLLUTANT/ENVIRONME NTALLY HAZARDOUS	UN 1759 Corrosive solid, n.o.s. (trimethylolpropane triglycidylether), 8, III, ENVIRONMENTALLY HAZARDOUS	UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard clas	ss(es)		
8	8	8	8
			B
14.4. Packing group			
III	III	III	III
14.5. Environmental hazaro	ls		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes



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ADR	IMDG	IATA	RID
o supplementary information a	vailable		
4.6. Special precautions	for user		
Overland transport			
Classification code (ADR)		C10	
Special provisions (ADR)		274	
imited quantities (ADR)		5kg	
Packing instructions (ADR)		P002, IBC08, LP02, R001	
lixed packing provisions (ADR)	MP10	
ransport category (ADR)		3	
Drange plates		80 1759	
unnel restriction code (ADR)		E	
ransport by sea			
Special provisions (IMDG)		223, 274	
Packing instructions (IMDG)		P002, LP02	
EmS-No. (Fire)		F-A	
EmS-No. (Spillage)		S-B	
Stowage category (IMDG)		A	
Air transport			
CA packing instructions (IATA)	860	
PCA max net quantity (IATA)		25kg	
CAO packing instructions (IATA	.)	864	
Special provisions (IATA)		A3, A803	
Rail transport			
Special provisions (RID)		274	
Packing instructions (RID)	RID) P002, IBC08, LP02, R001		

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)			
Reference code	Applicable on		
3(b)	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Reaction products of hexane-1,6-diol with 2- (chloromethyl) ; 1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol		
3(c)	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Reaction products of hexane-1,6-diol with 2- (chloromethyl) ; 1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol		



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REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany	
GISCODE	RE90 - Epoxy resin products, toxic for reproduction and/or mutagenic, sensitising, low in solvents or total solid.
Water hazard class (WGK)	WGK awg, Hazardous to water in general (Classification according to AwSV, Annex 1).
Storage class (LGK, TRGS 510)	LGK 6.1C - Combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects.
Chemicals Prohibition Ordinance (ChemVerbotsV)	This product is subject to ChemVerbotsV Annex 2 Entry 1. The following requirements must be observed: authorization requirement (according to § 6 paragraph 1 sentence 1), basic requirements for carrying out the delivery (according to § 8 paragraph 1, 3 and 4), identification and documentation (according to § 9 paragraph 1 to 3) and exclusion of the shipping route (according to § 10).
Hazardous Incident Ordinance (12. BImSchV)	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	SDS EU format according to COMMISSION REGULATION (EU) 2020/878	Modified	

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE Acute Toxicity Estimate		



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Abbreviations and acronyms:			
BCF	Bioconcentration factor		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC50	Median effective concentration		
IARC	International Agency for Research on Cancer		
ΙΑΤΑ	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
РВТ	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
vPvB	Very Persistent and Very Bioaccumulative		

Full text of H- and EUH-statements:			
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
H314	Causes severe skin burns and eye damage.		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H341	Suspected of causing genetic defects.		
H360F	May damage fertility.		
H411	Toxic to aquatic life with long lasting effects.		



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Full text of H- and EUH-statements:		
H412	Harmful to aquatic life with long lasting effects.	
Muta. 2	Germ cell mutagenicity, Category 2	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Corr. 1C	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Muta. 2	H341	Calculation method
Repr. 1B	H360F	Expert judgment
Aquatic Chronic 2	H411	Calculation method

SDS_EU_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.