

HIT-RE 500

Safety information for 2-Component-products

Date of issue: 03/08/2018

Revision date: 03/08/2018

Supersedes: 20/10/2017

Version: 9.2

SECTION 1: Kit identification

1.1 Product identifier

Product name



Product code

BU Anchor

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

Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101 2090 Midrand - South Africa T +2711 237300 - F +2711 2373111 Customercare.za@hilti.com

SECTION 2: General information

Storage

Storage temperature : 5 - 25 °C

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:

Classification of the Product

Classification according to the United Nations GHS (F	Rev. 4, 2011)
Skin Corr. 1A	H314
Skin Sens. 1	H317
Repr. 1B	H360
Aquatic Acute 2	H401
Aquatic Chronic 2	H411

Label elements

Labelling according to the United Nations GHS (Rev. 4, 2011)

Hazard pictograms (GHS-UN)

		\checkmark		
	GHS05	GHS07	GHS08	GHS09
Signal word (GHS-UN)	Danger			
Hazardous ingredients	Epoxy resin, Amir	nes		
Hazard statements (GHS-UN)	H314 - Causes se H317 - May cause H360F - May dam H411 - Toxic to ac	e an allergic ski nage fertility.	n reaction.	•
Precautionary statements (GHS-UN)	P280 - Wear eye P262 - Do not get			



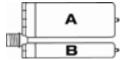
HIT-RE 500

Safety information for 2-Component-products

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P302+P352 - IF ON SKIN: Wash with plenty of water.

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 the United Nations GHS
HIT-RE 500, A		1	pcs	Skin Corr. 1C, H314 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
HIT-RE 500, B		1	pcs	Skin Corr. 1A, H314 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

SECTION 4: General advice

General advice

For professional users only

SECTION 5: Safe handling advic	
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
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



HIT-RE 500

Safety information for 2-Component-products

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	Drink plenty of water 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 inhalation	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



1.1. Product identifier

HIT-RE 500, B Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011) Date of issue: 03/08/2018

Version: 8.4

Revision date: 03/08/2018

Supersedes: 20/10/2017

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

Product form	Mixture
Product name	HIT-RE 500, B
UN-No. (ADR)	3259
Product code	BU Anchor
1.2 Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	Composite mortar component for fasteners in the construction industry
1.3. Details of the supplier of the safety	data sheet
Supplier Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101 2090 Midrand - South Africa T +2711 237300 - F +2711 2373111 Customercare.za@hilti.com	Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland T +49 8191 906310 - F +49 8191 90176310 anchor.hse@hilti.com
1.4. Emergency telephone number	
Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service
	+41 44 251 51 51 (international)
	+2711 237300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS (Rev.	4, 2011)
Skin Corr. 1A	H314
Skin Sens. 1	H317
Aquatic Acute 3	H402
Aquatic Chronic 3	H412
Full text of H statements : see section 16	

2.2. Label elements

Labelling according to the United Nations Hazard pictograms (GHS-UN)	GHS (Rev. 4, 2011)	
Signal word (GHS-UN)	Danger	
Hazardous ingredients	Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene; resorcinol; 1,3-benzenediol; m-Xylylenediamine	
Hazard statements (GHS-UN)	H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements (GHS-UN)	 P262 - Do not get in eyes, on skin, or on clothing. P280 - Wear eye protection, protective clothing, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention. 	
03/08/2018 EN (English)	4/21	





according to the United Nations GHS (Rev. 4, 2011)

P337+P313 - If eye irritation persists: Get medical advice, medical attention. P302+P352 - IF ON SKIN: Wash with plenty of water.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
m-Xylylenediamine	(CAS-No.) 1477-55-0	35 - 45	Acute toxicity (oral), Category 4, H302 Acute toxicity (dermal), Category 4, H312 Acute toxicity (inhalation:dust,mist) Category 4, H332 Skin corrosion/irritation, Category 1B, H314 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Acute Hazard, Category 3, H402 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412

Full text of H-statements: see section 16

SECTION 4: 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	Drink plenty of water. Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor.

		,
Symptoms/effects		Causes severe skin burns and eye damage.
	Symptoms/effects after inhalation	May cause an allergic skin reaction.
	Symptoms/effects after eye contact	Causes serious eye damage.
	Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

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

Treat symptomatically.



Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

5.1. Extinguishing media	
Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.
5.2. Special hazards arising from t	he substance or mixture
No additional information available	
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.

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 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.		

SECTION 7: Handling and storage	e		
7.1. Precautions for safe handling			
Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and othe 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, includin	g 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.		



Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Storage temperature	5 - 25 °C
Heat and ignition sources	Keep away from heat and direct sunlight.

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.

8.2. Appropriate engineering 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.			

8.3. Individual protection measures, such as personal protective equipment (PPE)

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Hand protection
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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.

Wear suitable protective clothing

Туре	Material	Permeation	Thickness (mm)	Penetrati on	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN 374
Eye protection Wear security glasses which protect from splashes					
Туре	Use	Characteristics	Standard		
Safety glasses	Droplet	clear	EN 166, EN 170		

Skin and body protection



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Thixotropic paste.
Colour	red.
Odour	Amine-like.
Odour threshold	No data available
рН	11,5
Relative evaporation rate (butylacetate=1)	No data available



Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Melting point	No data available		
Freezing point	No data available		
Boiling point	No data available		
Flash point	No data available		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Flammability (solid, gas)	Non flammable.		
Vapour pressure	No data available		
Relative vapour density at 20 °C	No data available		
Relative density	No data available		
Density	1,41 g/cm3 DIN EN ISO 1183-3		
Solubility	insoluble in water.		
Log Pow	No data available		
Viscosity, kinematic	No data available		
Viscosity, dynamic	50 Pa.s HN-0333		
Explosive properties	No data available		
Oxidising properties	No data available		
Explosive limits	No data available		

9.2. Other information

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

11.1. Information on toxicological effects

Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Not classified Not classified Not classified



Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

m-Xylylenediamine (1477-55-0)				
LD50 oral rat	1090 mg/kg			
LD50 oral	660 mg/kg			
LD50 dermal rat	> 3100 mg/kg			
LD50 dermal	2000 mg/kg			
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1,34 mg/l/4h			
Skin corrosion/irritation	Causes severe skin burns and eye damage.			
	pH: 11,5			
Serious eye damage/irritation	Serious eye damage, category 1, implicit			
	pH: 11,5			
Respiratory or skin sensitisation	May cause an allergic skin reaction.			
Germ cell mutagenicity	Not classified			
Carcinogenicity	Not classified			
Reproductive toxicity	Not classified			
STOT-single exposure	Not classified			
STOT-repeated exposure	Not classified			
Aspiration hazard	Not classified			
HIT-RE 500, B				
Viscosity, kinematic	35460,993 mm²/s			

Potential adverse human health effects and symptoms

Based on available data, the classification criteria are not met.

SECTION	12: Ecolog	ical infor	mation

12.1. Toxicity	
Ecology - water	Harmful to aquatic life with long lasting effects.
Acute aquatic toxicity	Harmful to aquatic life.
Classification procedure (Acute aquatic toxicity)	Calculation method
Chronic aquatic toxicity	Harmful to aquatic life with long lasting effects.
Classification procedure (Chronic aquatic toxicity)	Calculation method

m-Xylylenediamine (1477-55-0)	
LC50 fish 1	75 mg/l
LC50 other aquatic organisms 1	20,3 ppb
EC50 Daphnia 1	15 mg/l
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 500, B		
Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
HIT-RE 500, B		
Bioaccumulative potential	Not established.	

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects



Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Ozone	Not classified
Other adverse effects	No additional information available
Other 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.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number			
3259	3259	3259	3259
14.2. UN proper shipping r	name		
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 descript	ion		
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, SOLID, CORROSIVE, N.O.S. (m- Xylylenediamine), 8, II
14.3. Transport hazard class(es)			
8	8	8	8
			8
14.4. Packing group			
	11	11	11
14.5. Environmental hazards			
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 information available			

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	C8
Special provisions (ADR)	274
Limited quantities (ADR)	1kg



Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Packing instructions (ADR)	P002, IBC08
Mixed packing provisions (ADR)	MP10
Orange plates	80 3259
Tunnel restriction code (ADR)	E
- Transport by sea	
Special provisions (IMDG)	274
Limited quantities (IMDG)	1 kg
Packing instructions (IMDG)	P002
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-B
Stowage category (IMDG)	A
Stowage and segregation (IMDG)	Separated from' acids.
MFAG-No	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)	274
Limited quantities (RID)	1kg
Packing instructions (RID)	P002, IBC08
Carriage prohibited (RID)	No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

SDS Major/Minor		None	
Date of issue			03/08/2018
Revision date)	03/08/2018
Supersedes 20/10		20/10/2017	
Other information None.		None.	
Full t	ext of H-	statements:	
	H302	Harmful if swallowed.	
	H312	Harmful in contact with skin.	
	H314	Causes severe skin burns and eye damage.	
	H317	17 May cause an allergic skin reaction.	
	H332	Harmful if inhaled.	
	H402	Harmful to aquatic life	



Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

H412 Harmful to aquatic life with long lasting effects.

SDS_UN_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



HIT-RE 500, A Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011) Date of issue: 03/08/2018

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Supersedes: 20/10/2017

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

anchor.hse@hilti.com

1.1. Product identifier	
Product form	Mixture
Product name	HIT-RE 500, A
Product code	BU Anchor
1.2. Relevant identified uses of the subs	stance or mixture and uses advised against
Use of the substance/mixture	Composite mortar component for fasteners in the construction industry
1.3. Details of the supplier of the safety	data sheet
Supplier Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101 2090 Midrand - South Africa	Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland T +49 8191 906310 - F +49 8191 90176310

1.4. Emergency telephone number

T +2711 237300 - F +2711 2373111

Customercare.za@hilti.com

Emergency number

Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +2711 237300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS (Rev.	4, 2011)
Skin Corr. 1C	H314
Skin Sens. 1	H317
Repr. 1B	H360
Aquatic Acute 2	H401
Aquatic Chronic 2	H411
Full text of H statements : see section 16	

2.2. Label elements

Labelling according to the United Nations	GHS (Rev. 4, 2011)
Hazard pictograms (GHS-UN)	
	GHS05 GHS07 GHS08 GHS09
Signal word (GHS-UN)	Danger
Hazardous ingredients	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol ; Reaction products of hexane-1,6-diol with 2-(chloromethyl); 1,3 Propanediol, 2 ethyl-2- (hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane; 2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane
Hazard statements (GHS-UN)	H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H360 - May damage fertility H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (GHS-UN)	P262 - Do not get in eyes, on skin, or on clothing. P280 - Wear eye protection, protective clothing, protective gloves.
03/08/2018 EN (English)	13





Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention. P337+P313 - If eye irritation persists: Get medical advice, medical attention. P302+P352 - IF ON SKIN: Wash with plenty of water.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	(CAS-No.) 1675-54-3	25 - 40	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Acute Hazard, Category 2, H401 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol	(CAS-No.) 9003-36-5	10 - 25	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
Reaction products of hexane-1,6-diol with 2-(chloromethyl)	(CAS-No.) 933999-84-9	10 - 25	Acute toxicity (oral), Category 5, H303 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Acute Hazard, Category 3, H402 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412
1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2- (chloromethyl)oxirane	(CAS-No.) 30499-70-8	5 - 10	Skin corrosion/irritation, Category 1C, H314 Serious eye damage/eye irritation, Category 1, H318 Skin sensitisation, Category 1, H317 Reproductive toxicity, Category 1B, H360 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures

First-aid measures generalNever give anything by mouth to an unconscious person. If you feel unwell, seek medical
advice (show the label where possible).First-aid measures after inhalationRemove person to fresh air and keep comfortable for breathing. Assure fresh air breathing.
Allow the victim to rest.



Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

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. Drink plenty of water. Get medical advice/attention. Do not induce vomiting.
	Obtain emergency medical attention.
4.2. Most important symptoms and effec	
4.2. Most important symptoms and effec Symptoms/effects after inhalation	
	ts, both acute and delayed
Symptoms/effects after inhalation	t s, both acute and delayed May cause an allergic skin reaction.

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

Treat symptomatically.

symptoms

SECTION 5: Firefighting mea	asures
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 t	he substance or mixture
No additional information available	
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 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.



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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.

SECTION 7: Handling and storage

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, including	any incompatibilities
Storage conditions	Protect from sunlight.
Incompatible products	Strong bases. Strong acids.

Incompatible products
Incompatible materials
Storage temperature
Heat and ignition sources

Hand protection

Sources of ignition. Direct sunlight. 5 - 25 °C Keep away from heat and direct sunlight.

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.
8.2. Appropriate engineering 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.

8.3. Individual protection measures, such as personal protective equipment (PPE)

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.

Туре	Material	Permeation	Thickness (mm)	Penetrati on	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN 374
Eye protection		Wear security glasses which protect from splashes			
Туре	Use	Characteristics	Standard		
Safety glasses	Droplet	clear	EN 166, EN 170		



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Skin and body protection



Wear suitable protective clothing

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

official and official and official and official	
Physical state	Solid
Appearance	Thixotropic paste.
Colour	Light grey.
Odour	characteristic.
Odour threshold	No data available
рН	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1,46 g/ml DIN EN ISO 1183-3
Solubility	insoluble in water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	36 - 53 Pa.s HN-0333
Explosive properties	Product is not explosive.
Oxidising properties	No data available
Explosive limits	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.



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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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
2,2'-[(1-methylethylidene)bis(4,1-phenyleneo	xymethylana)]hisoxirana (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)
Formaldehyde, oligomeric reaction products	with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; ECHA)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; ECHA)
Reaction products of hexane-1,6-diol with 2-	
LD50 oral rat	3010 mg/kg
LD50 dermal rat	> 2000 mg/kg
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	May damage fertility
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

symptoms

Ecology - water Acute aquatic toxicity Classification procedure (Acute aquatic toxicity) Chronic aquatic toxicity Toxic to aquatic life with long lasting effects. Toxic to aquatic life. Calculation method Toxic to aquatic life with long lasting effects.



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Classification procedure (Chronic aquatic toxicity)

Calculation method

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)			
LC50 fish 1	1,2 mg/l (96 h; Oncorhynchus mykiss; Lethal)		
EC50 Daphnia 1	1,7 mg/l		
LC50 fish 2	2,3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)		
ErC50 (algae)	> 11 mg/l (EPA 660/3 - 75/009, 72 h, Scenedesmus sp., Static system, Fresh water,		
	Experimental value)		
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-(chloromethyl) (933999-84-9)			
LC50 fish 1	30 mg/l		
LC50 other aquatic organisms 1	23,1 mg/l		
EC50 Daphnia 1	47 mg/l		
NOEC (acute)	18 mg/l		

12.2. Persistence and degradability

HIT-RE 500, A	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

HIT-RE 500, A		
Bioaccumulative potential	Not established.	
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)		
BCF other aquatic organisms 1	31 (Estimated value, Fresh weight)	
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-phenyleneoxymethylene)]bisoxirane (1675-54-3)		
Surface tension	58,7 - 58,9 mN/m (20 °C, EU Method A.5: Surface tension)	
Log Pow	See section 12.1 on ecotoxicology	
Log Koc	See section 12.1 on ecotoxicology	
Ecology - soil	Low potential for adsorption in soil.	

12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available
Other 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.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping n	ame		
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard clas	ss(es)		
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazard	ds		
Not regulated	Not regulated	Not regulated	Not regulated
Environmentally ha	zardous substances derogation applie	s (quantity of liquids \leq 5 litres or net m	ass of solids ≤ 5 kg)
not restricted accord	ding ADR Special Provision SP375, IA	TA-DGR Special Provision A197 and	MDG-Code 2.10.2.7

14.6. Special precautions for user

- Overland transport	
Special provisions (ADR)	375
- Transport by sea No data available	
- Air transport Special provisions (IATA)	A197
- Rail transport Carriage prohibited (RID)	No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

SDS Major/Minor	None
Date of issue	03/08/2018
Revision date	03/08/2018
Supersedes	20/10/2017

Indication of changes:

Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	

Other information

None.

Full text of H-statements:



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H303	May be harmful if swallowed
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.
H360	May damage fertility or the unborn child.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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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