

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011) Date of issue: 23/01/2019

Version: 14.1

Revision date: 23/01/2019

Supersedes: 15/11/2017

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

1.1. Product identifier

Product form Generic name Product code Mixture HVU-TZ M10-M20 BU Anchor

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

Use of the substance/mixture

Adhesive anchor capsule for anchor fastening in concrete

1.3. Details of the supplier of the safety data sheet

Supplier Hilti Qatar W.L.L. Souq Al Rawda Salwa Road P.O. Box 24097 Doha Ad Dawhah - Qatar T +974 4406 3600 - F +974 4406 3669 QA.info@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) +974 4406 3600

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nati	ons GHS (Rev. 4, 2011)
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)

	GHS07 GHS08 GHS09
Signal word (GHS UN)	Danger
Hazardous ingredients	2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol; 2-Propenoic acid, 2-methyl-, 1,4- butanediyl ester; dibenzoyl peroxide; dicyclohexyl phthalate
Hazard statements (GHS UN)	H317 - May cause an allergic skin reaction. H360 - May damage fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (GHS UN)	P280 - Wear eye protection, protective clothing, protective gloves. P262 - Do not get in eyes, on skin, or on clothing.



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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-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	(CAS-No.) 27813-02-1	5 - 10	Flammable liquids Not classified Acute toxicity (oral) Not classified Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment - Acute Hazard Not classified Hazardous to the aquatic environment - Chronic Hazard Not classified
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	(CAS-No.) 2082-81-7	5 - 10	Acute toxicity (oral) Not classified Skin sensitisation, category 1B, H317 Hazardous to the aquatic environment — Acute Hazard, Category 3, H402 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412
dibenzoyl peroxide	(CAS-No.) 94-36-0	1 - 2.5	Organic Peroxides, Type B, H241 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 (M=10) Hazardous to the aquatic environment — Chronic Hazard, Category 1, H410 (M=10)
dicyclohexyl phthalate	(CAS-No.) 84-61-7	1 - 2.5	Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Skin sensitisation, Category 1, H317 Reproductive toxicity, Category 1B, H360 Hazardous to the aquatic environment - Acute Hazard Not classified Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412
1,1'-(p-tolylimino)dipropan-2-ol	(CAS-No.) 38668-48-3	0.1 - 1	Acute toxicity (oral), Category 2, H300 Serious eye damage/eye irritation, Category 2A, H319 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



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4.1. Description of first aid measures	
First-aid measures general	Take off immediately all contaminated clothing. 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. Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/ If skin irritation or rash occurs: Get 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 e	ffects, both acute and delayed
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	May cause severe irritation.
4.3. Indication of any immediate med	ical attention and special treatment needed
No additional information available	

5.1. Extinguishing media

Suitable extinguishing mediaWater spray. Carbon dioxide. Dry powder. Foam. Sand.Unsuitable extinguishing mediaDo not use a heavy water stream.

5.2. Special hazards arising from the 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 equi	pment 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.

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. 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	9
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. Provide good ventilation in process area to prevent formation of vapour.
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	Keep cool. Protect from sunlight. Expiry date: See date printed on box and capsule. Do not use if expiry date has been exceeded!.
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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate e	engineering controls				
Environmental expos		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. Individua	I protection measure	es, such as personal protective equipment (PPE)		
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.			
Туре	Material	Permeation	Thickness (mm)	Penetratio n	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN 374
	(=)				
Eye protection		Wear security glasses which protect from splashes			
Eye protection	Use	, ,	Standard	1	1



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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

Physical state	Solid
Appearance	foil capsule.
Colour	resin: yellowish liquid hardener: white powder.
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	> 101 °C (DIN EN ISO 1523)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	0.1 hPa
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	insoluble in water.
Log Pow	No data available
Viscosity, kinematic	20 Seconds (ISO 2431)
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2. Other information

SADT

55 °C (Peroxide)

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

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

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-Propenoic acid, 2-methyl-, monoester	with 1,2-propanediol (27813-02-1)
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rabbit	>= 5000 mg/kg bodyweight (Rabbit; Experimental value)
2-Propenoic acid, 2-methyl-, 1,4-butaned	liyl ester (2082-81-7)
LD50 oral rat	10066 mg/kg
LD50 dermal rat	> 3000 mg/kg
1,1'-(p-tolylimino)dipropan-2-ol (38668-4	8-3)
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg
dicyclohexyl phthalate (84-61-7)	
LD50 oral rat	41400 mg/kg (Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	May damage fertility or the unborn child.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

SECTION 12: Ecological information

12.1. Toxicity

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



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2-Propenoic acid, 2-methyl-, monoester w		
LC50 fish 1	493 mg/l (48 h; Leuciscus idus; GLP)	
EC50 Daphnia 1	> 143 mg/l (48 h; Daphnia magna; GLP)	
Threshold limit algae 1	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)	
Threshold limit algae 2	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
LC50 fish 1	32.5 mg/l	
LC50 other aquatic organisms 1	9.79 mg/l	
NOEC (acute)	7.51 mg/l	
NOEC (chronic)	20 mg/l	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48	-3)	
LC50 fish 1	≈ 17 mg/l	
LC50 other aquatic organisms 1	245 mg/l	
EC50 Daphnia 1	28.8 mg/l	
NOEC (acute)	57.8 mg/l	
dibenzoyl peroxide (94-36-0)		
EC50 Daphnia 1	0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static	
	system, Fresh water, Experimental value)	
LC50 fish 2	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)	
NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)	
NOEC chronic fish	< 0.001	
dicyclohexyl phthalate (84-61-7)		
LC50 fish 1	> 10000 mg/l (96 h; Brachydanio rerio; Static system)	
LC50 other aquatic organisms 1	1.04 mg/l	
NOEC (acute)	> 2 mg/l	
NOEC chronic crustacea	0.181 mg/l	

12.2. Persistence and degradability

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)			
Persistence and degradability	Readily biodegradable in water.		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)			
Biodegradation	84 %		
dibenzoyl peroxide (94-36-0)			
Persistence and degradability	Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment.		
dicyclohexyl phthalate (84-61-7)			
Persistence and degradability	Readily biodegradable in water. Forming sediments in water.		
ThOD	2.376 g O₂/g substance		

12.3. Bioaccumulative potential

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)			
BCF fish 1	<= 100		
BCF fish 2	3.2 Quantitative structure-activity relationship (QSAR)		
Log Pow	0.97 (OECD 102 method)		
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl es	2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Log Pow	3.1		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
BCF fish 1	≈		
Log Kow	2.1		
dibenzoyl peroxide (94-36-0)			
Log Pow	3.71		
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).		
dicyclohexyl phthalate (84-61-7)			
BCF fish 1	640 (Pisces)		
Log Pow	3 - 6.2		
Bioaccumulative potential	High potential for bioaccumulation (Log Kow > 5).		



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12.4. Mobility in soil

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Log Pow	See section 12.1 on ecotoxicology	
Ecology - soil	Low potential for adsorption in soil.	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Log Pow	See section 12.1 on ecotoxicology	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Log Kow	See section 12.1 on ecotoxicology	
dibenzoyl peroxide (94-36-0)		
Log Pow	See section 12.1 on ecotoxicology	
Log Koc	See section 12.1 on ecotoxicology	
Ecology - soil	Adsorbs into the soil.	
dicyclohexyl phthalate (84-61-7)		
Log Pow	See section 12.1 on ecotoxicology	
12.5. Other adverse effects		

Ozone	Not classified
Other adverse effects	No additional information available

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				
Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping n	14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard clas	14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)				
No supplementary information available				



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14.6. Special precautions for user

- Overland transport

- Transport by sea No data available

- Air transport No data available

- 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	23/01/2019
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Supersedes	15/11/2017

Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification (GHS UN)	Modified	
2.2	Hazard pictograms (GHS UN)	Added	
2.2	Hazard statements (GHS UN)	Added	
3	Composition/information on ingredients	Modified	

Other information

None.

Full text of H-statements:

H241	Heating may cause a fire or explosion.
H300	Fatal if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
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



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