

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 11/12/2017

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

Mixture
HVU-TZ M10-M20
BU Anchor
RUU-12 MID TA
ance or mixture and uses advised against
For professional use only
Adhesive anchor capsule for anchor fastening in concrete
ata sheet
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
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. 1272/200	3 [CLP]	
Skin sensitisation, Category 1	H317	
Reproductive toxicity, Category 1B	H360D	
Full text of hazard classes and H-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)





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Signal word (CLP) Hazardous ingredients	Danger 2-Hydroxypropyl methacrylate; 1,4-Butanediol dimethacrylate; dibenzoyl peroxide; dicyclohexyl phthalate
Hazard statements (CLP)	H317 - May cause an allergic skin reaction. H360D - May damage the unborn child.
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	Restricted to professional users

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

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-Hydroxypropyl methacrylate	(CAS-No.) 27813-02-1 (EC-No.) 248-666-3 (EC Index-No.) 607-125-00-5 (REACH-no) 01-2119490226-37	5 - 10	Eye Irrit. 2, H319 Skin Sens. 1, H317	
1,4-Butanediol dimethacrylate	(CAS-No.) 2082-81-7 (EC-No.) 218-218-1 (REACH-no) 01-2119967415-30	5 - 10	Skin Sens. 1B, H317	
dibenzoyl peroxide	(CAS-No.) 94-36-0 (EC-No.) 202-327-6 (EC Index-No.) 617-008-00-0 (REACH-no) 01-2119511472-50	1 - 2.5	Org. Perox. B, H241 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)	
dicyclohexyl phthalate	(CAS-No.) 84-61-7 (EC-No.) 201-545-9	1 - 2.5	Skin Sens. 1, H317 Repr. 1B, H360D Aquatic Chronic 3, H412	
1,1'-(p-tolylimino)dipropan-2-ol	(CAS-No.) 38668-48-3 (EC-No.) 254-075-1 (REACH-no) 01-2119980937-17	0.1 - 1	Acute Tox. 2 (Oral), H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	

Full text of H-statements: see section 16

SECTION 4: First aid measures	
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.



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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 effects	, 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 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 subs	5.2. Special hazards arising from the substance 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, protect	ive 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.

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. 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.



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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. 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	g 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.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment

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

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)	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12	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



Wear suitable protective clothing

Environmental exposure controls Consumer exposure controls

Other information

Avoid release to the environment. Avoid contact during pregnancy/while nursing.

Do not eat, drink or smoke during use.



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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.

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.



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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-Hydroxypropyl methacrylate (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)	
1,4-Butanediol dimethacrylate (2082-81-7)		
LD50 oral rat	10066 mg/kg	
LD50 dermal rat	> 3000 mg/kg	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
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	
Reproductive toxicity	May damage 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	Not classified
Chronic aquatic toxicity	Not classified

2-Hydroxypropyl methacrylate (27813-02-1)			
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)		
1,4-Butanediol dimethacrylate (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)	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)			
LC50 fish 2	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)		
NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)		



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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-Hydroxypropyl methacrylate (27813-02-1)			
Persistence and degradability	Readily biodegradable in water.		
1,4-Butanediol dimethacrylate (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-Hydroxypropyl methacrylate (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).		
1,4-Butanediol dimethacrylate (2082-81-7)	1,4-Butanediol dimethacrylate (2082-81-7)		
Log Pow	3.1		
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).		

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment		
HVU-TZ M10-M20		
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. 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	Refer to manufacturer/supplier for information on recovery/recycling. Dispose of contents/container to Avoid release to the environment, Refer to manufacturer/supplier for information on recovery/recycling.	
Ecology - waste materials	Avoid release to the environment.	



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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 / IATA / IMDG / RID

Other information

No supplementary information available

ADR Regulatory status: IMDG Regulatory status: IATA Regulatory status: RID Regulatory status:

ADR	IMDG	ΙΑΤΑ	RID	
14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping nar	ne			
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class	14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
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

- Transport by sea

No data available

- Air transport

No data available

Carriage prohibited (RID)

- Rail transport

No

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

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



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Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
	Hazard pictograms (CLP)	Added	
	Hazard statements (CLP)	Added	
	Precautionary statements (CLP)	Added	
2	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
3	Composition/informatio n on ingredients	Modified	

Other information

None.

Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Org. Perox. B	Organic Peroxides, Type B
Repr. 1B	Reproductive toxicity, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H241	Heating may cause a fire or explosion.
H300	Fatal if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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