

Safety Data Sheet

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

Date of issue: 30/01/2019

Version: 9.1

Revision date: 30/01/2019 Supersedes: 13/11/2017

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

1.1. Product identifier

Product form Mixture
Generic name HVU M8 - M39
Product code BU Anchor

HVU M20x170 HVU M20x170 HVU M20x170 (7,8" x 6 5,8") (7,8" x 5 5,8")

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 India Private Limited F-90/4, Okhla Industrial Area Phase 1

110 020 New Delhi - India

T +9111 4270 1111 - F +91 405 23318

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6

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)

+9111 4064 6500 +9111 4270 1122

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations 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)



GHS08



GHS07

GHS09

Signal word (GHS UN) Dange

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.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

30/01/2019 IN - en 1/9



Safety Data Sheet

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

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

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).

30/01/2019 IN - en 2/9



Safety Data Sheet

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

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 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 substance or mixture

No additional information available

5.3. Advice for firefighters

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.

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.

30/01/2019 IN - en 3/9



Hygiene measures

HVU M8 - M39

Safety Data Sheet

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

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.

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 engineering controls

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)

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

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Skin and body protection

Wear suitable protective clothing







30/01/2019 IN - en 4/9



Safety Data Sheet

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

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 pH No data available Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point No data available

Flash point > 101 °C (DIN EN ISO 1523)

No data available

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 insoluble in water. Solubility Log Pow No data available 20 Seconds (ISO 2431) Viscosity, kinematic No data available Viscosity, dynamic Explosive properties No data available Oxidising properties No data available No data available **Explosive limits**

9.2. Other information

SADT 55 °C dibenzoyl peroxide

SECTION 10: Stability and reactivity

10.1. Reactivity

Boiling point

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.

30/01/2019 IN - en 5/9



Safety Data Sheet

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

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)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

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	2-Propenoic acid, 2-methyl-, 1,4-butanediyl 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	18-3)		
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 Toxic to aquatic life.
Classification procedure (Acute aquatic toxicity) Calculation method

Chronic aquatic toxicity

Toxic to aquatic life with long lasting effects.

Classification procedure (Chronic aquatic Calculation method

toxicity)

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (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)	

30/01/2019 IN - en 6/9



Safety Data Sheet

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

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	ster (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).		

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.	

30/01/2019 IN - en 7/9



Safety Data Sheet

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

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)	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

No additional information available Other adverse effects

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	IATA	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 class	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 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			

14.6. Special precautions for user

- Overland transport

- Transport by sea

No data available

30/01/2019 IN - en 8/9



Safety Data Sheet

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

- 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
 30/01/2019

 Revision date
 30/01/2019

 Supersedes
 13/11/2017

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:

text of 11 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.

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

30/01/2019 IN - en 9/9