

Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Version:15.0

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Supersedes: 2019/04/04

### SECTION 1 Chemical product and company identification

#### Product identifier

chemical

Product form Generic name Product code Chemical Chinese name Chemical English name

Recommended use of the

Mixture HVU-TZ M10-M20 BU Anchor 锚固嵌缝剂 HVU-TZ Adhesive Capsule HVU-TZ For professional use only Adhesive anchor capsule for anchor fastening in concrete

#### Details of the supplier of the safety data sheet

Supplier Hilti (China) Ltd. 8F, Tower 2, No.58 Yao Yuan Rd. Pudong District 200126 Shanghai - China T +86 21 6016 7316

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

 Emergency telephone number

 Emergency number

 Schweizerisches Toxikologisches Informationszentrum 

 24h Service

 +41 44 251 51 51 (international)

 Country
 Organisation/Company

 Address

Country	organisation/company	Address	Emergency number
China	中国境内化学事故应急咨询电话 /		+ 8 6  5 3 2  8 3 8 8 9 0 9 0
	chemical accident emergency		
	consultation service hotline		
	(24/7)		

### SECTION 2 Hazards identification

#### Emergency overview

foil capsule. resin: yellowish liquid hardener: white powder. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Use personal protective equipment as required. Equip cleanup crew with proper protection

#### GHS hazard classification

Health hazards

Skin sensitization, Category 1  $\,$ 

Reproductive toxicity, Category 1B



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Environmental hazards	Hazardous to the aquatic environment - Acute hazard, Category 2 Hazardous to the aquatic environment - Chronic hazard, Category 2
Other hazards not mentioned above ar	e Not applicable or No data is available.
abel elements	
Hazard pictograms (GHS CN)	
Signal word (GHS CN)	Danger.
Hazard statements (GHS CN)	H317 - May cause an allergic skin reaction H360 - May damage the unborn child. H411 - Toxic to aquatic life with long lasting effects.
recautionary statements (GHS CN)	
Prevention measures	P262 - Do not get in eyes, on skin, or on clothing. P280 - Wear eye protection, protective clothing, protective gloves.
Incident response Safe storage	P302+P352 - IF ON SKIN: Wash with plenty of water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P410+P403 - Protect from sunlight. Store in a well-ventilated place.
Disposal	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### Physical and chemical hazards

No additional information available

#### Health hazards

May cause an allergic skin reaction	
May damage the unborn child.	
Symptoms/effects after skin contact	May cause an allergic skin reaction.

### Environmental hazards

Toxic to aquatic life with long lasting effects

#### Other hazards

No additional information available

### SECTION 3 Composition/information on ingredients

### Product form

Mixture.

Ingredient (s)	Concentration or concentration ranges (w/w %)	CAS No.
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	5 - 10	27813-02-1



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.
2-Propenoic acid, 2-methyl-, 1,4- butanediyl ester	5 - 10	2082-81-7
dicyclohexyl phthalate	1 - 2.5	84-61-7
dibenzoyl peroxide	0.5 - <1.5	94-36-0
1,1'-(p-tolylimino)dipropan-2-ol	0.1 - 1	38668-48-3

### SECTION 4 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.
	Allow affected person to breathe fresh air.
	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.
	Get medical advice/attention.
	Do not induce vomiting.
	Obtain emergency medical attention
st important symptoms/effects	
Symptoms/effects after eye contact	May cause severe irritation
Symptoms/effects after skin contact	May cause an allergic skin reaction.
rices for first aid responders	
No additional information available	
es for the doctor	
Other medical advice or treatment	Treat symptomatically

### SECTION 5 Fire-fighting measures



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

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

### SECTION 6 Accidental release measures

Personal precautions, protective equipment	nt and emergency procedures
Heat and ignition sources	Keep away from heat and direct sunlight
General measures	Spilled material may present a slipping hazard
Personal Precautions, Protective Equipment	No additional information available
and Emergency Procedures	
For non-emergency personnel	
Emergency procedures	Evacuate unnecessary personnel
For emergency responders	
Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection
Emergency procedures	Ventilate area
Environmental precautions	
Prevent entry to sewers and public waters	
Notify authorities if liquid enters sewers	or public waters
Methods and material for containment and	cleaning up
Methods for cleaning	No additional information available
For containment	Collect spillage.
Prevention measures for secondary accider	nts
Prevention Measures for Secondary Accidents	No additional information available
Accidents	



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Other information

Dispose of materials or solid residues at an authorized site

### SECTION 7 Handling and storage

ndling	
Precautions for safe handling	Wear personal protective equipment Avoid contact with skin and eyes
Hygiene measures	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.
Local and general ventilation	No additional information available
orage	
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!
Material used in packaging/containers	No additional information available
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 equipment

#### Occupational exposure limits

HVU-TZ M10-M20	
China - Occupational Exposure Limits	
OEL PC-TWA	$5 \text{ mg/m}^3$
Regulatory reference	GBZ 2.1-2019

dibenzoyl peroxide (94-36-0)	
China - Occupational Exposure Limits	
Local name	过氧化苯甲酰 # Benzoyl peroxide
OEL PC-TWA	5 mg/m <sup>3</sup>
Regulatory reference	GBZ 2.1-2019

### Biological limit values

No additional information available

#### Monitoring methods

No additional information available



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

#### Appropriate engineering controls

No additional information available

Personal protective equipment	
Personal protective equipment	Safety glasses Gloves Protective clothing
	Avoid all unnecessary exposure
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
Hand protection	Wear protective gloves.
F	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)	Penetration	Standard
Disposable gloves.	Nitrile rubber (NBR).	6 (> 480 minutes).	0, 12		EN ISO 374.

Eye protection

Wear security glasses which protect from splashes

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

Skin and body protection

Wear suitable protective clothing

Respiratory protection

No additional information available

 $\label{eq:personal protective equipment symbol(s)} Personal protective equipment symbol(s)$ 



### SECTION 9 Physical and chemical properties

Physical state	Solid
Appearance	foil capsule
Colour	resin: yellowish liquid hardener: white powder
Odour	characteristic
pH	No data available
Melting point	No data available
Freezing point	Not applicable
Boiling point	Not applicable



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Flash point	> 101 ° C (DIN EN ISO 1523)
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Vapour pressure	0.1 hPa
Relative vapour density at 20 ° C	No data available
Density	No data available
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	20 mm <sup>2</sup> /s (ISO 2431)
Lower explosive limit (LEL)	No data available
Upper explosive limit (UEL)	No data available
Radioactive	No

### SECTION 10 Stability and reactivity

Reactivity	No additional information available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No additional information available
Conditions to avoid	Direct sunlight. Extremely high or low temperatures
Incompatible materials	Strong acids Strong bases
Hazardous decomposition products	fume Carbon monoxide Carbon dioxide Under normal conditions of storage and use, hazardous decomposition products should not be produced
Other properties	No additional information available

### SECTION 11 Toxicological information

Acute toxicity	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (inhalation)	No data available

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol		
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-butanediyl ester		
LD50 oral rat	10066 mg/kg	
LD50 dermal rat	> 3000 mg/kg	
ATE CN (oral)	10066 mg/kg bodyweight	



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519  $\,$ 

1,1'-(p-tolylimino)dipropan-2-ol	
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE CN (oral)	25 mg/kg bodyweight
dicyclohexyl phthalate	
LD50 oral rat	41400 mg/kg (Rat)
LD50 dermal rabbit	> 7940  mg/kg (Rabbit)
ATE CN (oral)	41400 mg/kg bodyweight
Skin corrosion/irritation	
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	
Serious eye damage/irritation	No data available
Respiratory or skin sensitisation	
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	
Germ cell mutagenicity	No data available
Carcinogenicity	
Carcinogenicity	No data available
dibenzoyl peroxide	
IARC group	3 - Not classifiable
Reproductive toxicity	
Reproductive toxicity	May damage the unborn child.
STOT - single exposure	
STOT-single exposure	No data available
STOT - repeated exposure	
STOT-repeated exposure	No data available
Aspiration hazard	
Aspiration hazard	: No data available
HVU-TZ M10-M20	
Viscosity, kinematic	20 mm <sup>2</sup> /s (ISO 2431)

### SECTION 12 Ecological information

### Ecotoxicity

Hazardous to the aquatic environment,	Toxic to aquatic life.
short - term (acute)	



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Hazardous to the aquatic environment, long-term (chronic) Toxic to aquatic life with long lasting effects.

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol		
LC50 - Fish [1]	493 mg/l (48 h; Leuciscus idus; GLP)	
EC50 - Crustacea [1]	> 143 mg/l (48 h; Daphnia magna; GLP)	
ErC50 algae	97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	
BCF - Fish [1]	≤ 100	
BCF - Fish [2]	3.2 Quantitative structure-activity relationship (QSAR)	

1, l'-(p-tolylimino)dipropan-2-ol	
LC50 - Fish [1]	$\approx$ 17 mg/l
EC50 - Crustacea [1]	28.8 mg/1
Partition coefficient n-octanol/water (Log Kow)	2.1

dibenzoyl peroxide	
LC50 - Fish [2]	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)
EC50 - Crustacea [1]	0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
ErC50 algae	0.0711 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)
NOEC chronic fish	0.001 mg/1

dicyclohexyl phthalate	
LC50 - Fish [1]	> 10000 mg/l (96 h; Brachydanio rerio; Static system)
NOEC chronic crustacea	0.181 mg/1
BCF - Fish [1]	640 (Pisces)

### Persistence and degradability

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	
Not rapidly degradable	Yes
Persistence and degradability	Readily biodegradable in water

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	
Not rapidly degradable	Yes
Biodegradation	84 %

dibenzoyl peroxide	
Persistence and degradability	Readily biodegradable in water
	Not established
	May cause long-term adverse effects in the environment

### dicyclohexyl phthalate



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Persistence and degradability	Readily biodegradable in water
	Forming sediments in water
ThOD	2.376 g $0_2/g$ substance

### Bioaccumulative potential

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	
Bioaccumulative potential	Low bioaccumulation potential (BCF $<$ 500)
BCF - Fish [1]	See section 12.1 on ecotoxicology
BCF - Fish [2]	See section 12.1 on ecotoxicology
Partition coefficient n-octanol/water (Log Pow)	0.97 (OECD 102 method)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (log Koc, Calculated value)

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	
Partition coefficient n-octanol/water (Log Pow)	3.1

1,1'-(p-tolylimino)dipropan-2-ol	
Partition coefficient n-octanol/water (Log Kow)	See section 12.1 on ecotoxicology

dibenzoyl peroxide	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow $<$ 4)
Partition coefficient n-octanol/water (Log Pow)	3.71
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)

dicyclohexyl phthalate	
Bioaccumulative potential	High potential for bioaccumulation (Log Kow $>$ 5)
BCF - Fish [1]	See section 12.1 on ecotoxicology
Partition coefficient n-octanol/water (Log Pow)	3 - 6.2

### Mobility in soil

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	
Ecology - soil	Low bioaccumulation potential (BCF $<$ 500)
Partition coefficient n-octanol/water (Log Pow)	0.97 (OECD 102 method)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (log Koc, Calculated value)

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Partition coefficient n-octanol/water (Log	3.1		
Pow)			
1 1' / 1 1' '. \ 1' 0 1			
1,1'-(p-tolylimino)dipropan-2-ol			
Partition coefficient n-octanol/water (Log Kow) See section 12.1 on ecotoxicology			
dibenzoyl peroxide			
Ecology - soil	Low bioaccumulation potential (Log Kow $< 4$ )		
Surface tension	No data available (test not performed)		
Partition coefficient n-octanol/water (Log Pow)	3.71		
,			
Organic Carbon Normalized Adsorption	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and		

		value)		
ĺ	dicyclohexyl phthalate			
	Ecology - soil     High potential for bioaccumulation (Log Kow > 5)			
	Partition coefficient n-octanol/water (Log 3 - 6.2			

on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental

#### Other adverse effects

Pow)

Coefficient (Log Koc)

Classification procedure (Ozone)

No data available

#### Results of PBT and vPvB assessment

PBT	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
vPvB	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### SECTION 13 Disposal considerations

Waste treatment methods	No additional information available
Contaminated container and packaging	No additional information available
Additional information No additional information available	
Product/Packaging disposal After curing, the product can be disposed of with household was	
recommendations	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.
Regional legislation (waste)	Disposal must be done according to official regulations

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID  $\,$ 



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

ADR	IMDG	IATA	RID
14.1. UN number or ID number	r		
UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping nam	ne		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)
Transport document description UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III
14.3. Transport hazard class	s(es)		
9	9	9	9
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
not restricted according ADR Sp	ecial Provision SP375, IATA-DGR S	pecial Provision A197 and IMDG-Co	ode 2.10.2.7

### 14.6. Special precautions for user

### Overland transport

Classification code (ADR)	M7
Special provisions (ADR)	274, 335, 375, 601
Limited quantities (ADR)	5kg
Packing instructions (ADR)	P002, IBC08, LP02, R001
Mixed packing provisions (ADR)	MP10
Transport category (ADR)	3
Orange plates	90 3077
Tunnel restriction code (ADR)	-
Transport by sea	
Special provisions (IMDG)	274, 335, 966, 967, 969
Limited quantities (IMDG)	5 kg

LP02, P002

Packing instructions (IMDG)



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	А
Stowage and handling (IMDG)	SW23
Air transport	
PCA packing instructions (IATA)	956
PCA max net quantity (IATA)	400kg
CAO packing instructions (IATA)	956
Special provisions (IATA)	A97, A158, A179, A197, A215
Rail transport	
Special provisions (RID)	274, 335, 375, 601
Limited quantities (RID)	5kg
Packing instructions (RID)	P002, IBC08, LP02, R001
14.7. Maritime transport in bulk according	a to TWO instruments
14.7. mailtime transport in bulk according	R to INO INSTITUTIONS

Not applicable



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

### SECTION 15 Regulatory information

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020) Inventory of Existing Chemical Substances in Clisted China (IECSC) Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council) : Listed Catalogue of Hazardous Chemicals (2015) : Not listed Identification of major hazard installations for dangerous chemicals (GB 18218) : Not listed Catalogue of Severely Restricted Toxic Chemicals : Not listed Catalogue of Explosive Precursor Dangerous Chemicals : Not listed Catalogue of Hazardous Chemicals Prohibited from Inland Waterway Transport Law of the People's Republic of China on the Prevention and Control of Occupational Diseases • Listed Catalogue for Classification of Hazardous Factors of Occupational Diseases : Not listed List of Highly Toxic Substances Regulations on Administration of Chemicals Subjected to Supervision and Control : Not listed Catalogue of Controlled Chemicals Regulation on the Administration of Precursor Chemicals (Decree 445 of the State Council) : Not listed Catalogue of Precursor Chemicals Regulations on Administration of Ozone Depleting Substances (Decree 573 of the State Council) : Not listed List of Ozone-Depleting Substances under Control in China Other domestic regulatory lists : Listed Dangerous Goods List (GB 12268-2012) List of Export Control of Chemical Agents and : Not listed Related Equipment and Technologies : Not listed List of Goods Prohibited from Export (No. 3) or Import (No. 6) : Listed Inventory of Hazardous Chemicals under Key Supervision

### SECTION 16 Other information

#### Abbreviations and acronyms

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



Safety Data Sheet

Compiled according to GB/T 16483, GB/T 17519

Oth	er information	None
	vPvB	Very Persistent and Very Bioaccumulative
	SDS	Safety Data Sheet
	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
	PNEC	Predicted No-Effect Concentration
	PBT	Persistent Bioaccumulative Toxic
	OECD	Organisation for Economic Co-operation and Development
	NOEC	No-Observed Effect Concentration
	NOAEL	No-Observed Adverse Effect Level
	NOAEC	No-Observed Adverse Effect Concentration
	LOAEL	Lowest Observed Adverse Effect Level
	LD50	Median lethal dose
	LC50	Median lethal concentration
	IMDG	International Maritime Dangerous Goods
	IATA	International Air Transport Association
	IARC	International Agency for Research on Cancer
	EC50	Median effective concentration
	DNEL	Derived-No Effect Level
	DMEL	Derived Minimal Effect level
	CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
	BCF	Bioconcentration factor

### Indication of changes

Section	Changed item	Change	Comments
1.	Emergency number.	Modified.	
14.	Transportation information.	Added.	
3.	Composition/information on ingredients.	Modified.	

#### SDS\_CN\_Hilti



Safety Data Sheet Compiled according to GB/T 16483, GB/T 17519

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.