

Safety Data Sheet

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

Version: 3.0

Revision date: 2022/02/28 Issue date: 2022/02/28 Supersedes: 2020/03/29

SECTION 1 Chemical product and company identification

Product identifier

Product form Mixture Product code BU Anchor

锚 固 嵌 缝 剂 HIT-HY 200-R Chemical Chinese name

Chemical English name Injection Mortar HIT-HY 200-R



Recommended use of the

chemical

For professional use only Composite mortar component for fasteners in the

construction industry

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	Emergency number
China	中国境内化学事故应急咨询电话 /		+86 532 83889090
	chemical accident emergency		
	consultation service hotline		
	(24/7)		

SECTION 2 Hazards identification

Emergency overview

Thixotropic paste. component A: grey, component B: white. Non flammable. Use personal protective equipment as required. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Equip cleanup crew with proper protection

GHS hazard classification

Serious eye damage/eye irritation, Category 2A Health hazards

Skin sensitization, Category 1

Hazardous to the aquatic environment - Acute hazard, Category 1 Environmental hazards

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Hazardous to the aquatic environment - Chronic hazard, Category 1

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

Hazard pictograms (GHS CN)





Signal word (GHS CN)

Hazard statements (GHS CN)

Warning.

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS CN)

Prevention measures P262 - Do not get in eyes, on skin, or on clothing.

P280Wear eye protection, protective clothing, protective gloves.

Incident response P302+P351 - 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.

Safe storage 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

Causes serious eye irritation

Symptoms/effects after eye contact

May cause severe irritation

 ${\tt Symptoms/effects} \ after \ skin \ contact$

May cause an allergic skin reaction.

Environmental hazards

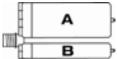
Very toxic to aquatic life with long lasting effects

Other hazards

No additional information available

SECTION 3 Composition/information on ingredients

Product form



Mixture.

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized

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A			
Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.	
2-Propenoic acid, 2-methyl-, 1,4- butanediyl ester	10 - 25	2082-81-7	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	5 - 10	27813-02-1	
1,1'-(p-tolylimino)dipropan-2-ol	0.1 - 1	38668-48-3	
2,2'-(m-tolylimino)diethanol	0.1 - 1	91-99-6	

В				
Ingredient(s)	Concentration or concentration ranges $(\mbox{w}/\mbox{w}$ %)	CAS No.		
dibenzoyl peroxide	10 - 25	94-36-0		

SECTION 4 First-aid measures

Description of necessary 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

Most important symptoms/effects

Symptoms/effects after eye contact May cause severe irritation

Symptoms/effects after skin contact May cause an allergic skin reaction.

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Advices for first aid responders

No additional information available

Notes for the doctor

Other medical advice or treatment

Treat symptomatically

SECTION 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam Dry powder Carbon dioxide Water spray 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

Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment

Prevent fire fighting water from entering the Self-contained breathing apparatus

Protection during firefighting

Do not enter fire area without proper protective equipment, including

respiratory protection

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

Spilled material may present a slipping hazard $\,$

 $\label{thm:precautions} Personal\ Precautions,\ Protective\ Equipment$

and Emergency Procedures

No additional information available

For non-emergency personnel

Emergency procedures

Evacuate unnecessary personnel

For emergency responders

Protective equipment
Emergency procedures

Equip cleanup crew with proper protection

Ventilate area

Environmental precautions

Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

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Methods and material for containment and cleaning up

Methods for cleaning

No additional information available

For containment Collect spillage.

Prevention measures for secondary accidents

Prevention Measures for Secondary

Accidents

Hygiene measures

Local and general ventilation

No additional information available

SECTION 7 Handling and storage

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.

 $\label{thm:problem} \textbf{Wash contaminated clothing before reuse.}$

No additional information available

Storage

Storage conditions Keep cool. Protect from sunlight.

Material used in packaging/containers No additional information available

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

HIT-HY 200-R	
China - Occupational Exposure Limits	
Local name	过氧化苯甲酰 # Benzoyl peroxide
OEL PC-TWA	5 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 ³
Regulatory reference	GBZ 2.1-2019

Biological limit values

No additional information available

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Monitoring methods

No additional information available

Appropriate engineering controls

Ensure adequate ventilation

Personal protective equipment

Personal protective equipment Safety glasses

Gloves

Protective clothing

Avoid all unnecessary exposure Avoid release to the environment.

Environmental exposure controls

Avoid release to the environment.

Avoid contact during pregnancy/while nursing.

Other information Do not eat, drink or smoke during use

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 $\frac{1}{2}$

may shorten the protective function's effective duration.

Type	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

Type	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 $% \frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac$

Personal protective equipment symbol(s)







SECTION 9 Physical and chemical properties

Physical state Solid

Appearance Thixotropic paste

Colour component A: grey, component B: white

OdourcharacteristicpHNo data availableMelting pointNo data available

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Freezing point Not applicable Boiling point Not applicable Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) Non flammable. Vapour pressure No data available No data available Relative vapour density at 20 ° C $1.8 - 1.9 \text{ g/cm}^3$ Density Solubility No data available Partition coefficient n-octanol/water No data available

(Log Pow)

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 Not established

Possibility of hazardous reactions Not established

Conditions to avoid Direct sunlight. Extremely high or low temperatures

Incompatible materials Strong acids
Strong bases

Hazardous decomposition products fume

Carbon monoxide Carbon dioxide

Other properties No additional information available

SECTION 11 Toxicological information

Acute toxicity

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

No data available

No data available

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

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

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2,2'-(m-tolylimino)diethanol	
LD50 oral rat	300 - 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE CN (oral)	500 mg/kg bodyweight

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)

Skin corrosion/irritation

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Serious eye damage/irritation

Causes serious eye irritation.

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

No data available

STOT - single exposure

STOT-single exposure

No data available

STOT - repeated exposure

STOT-repeated exposure

No data available

2, 2'-(m-tolylimino) diethanol	
STOT-repeated exposure	May cause damage to organs (kidneys) through prolonged or repeated exposure
	(oral).

Aspiration hazard

Aspiration hazard

: No data available

HIT-HY 200-R	
Density	1.8 - 1.9 g/cm ³

SECTION 12 Ecological information

Ecotoxicity

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Ecology - water

Very toxic to aquatic life.

Hazardous to the aquatic environment,

Very toxic to aquatic life.

short - term (acute)

Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment,

long-term (chronic)

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

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	
LC50 - Fish [1]	493 mg/1 (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)

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

Persistence and degradability

HIT-HY 200-R	
Persistence and degradability	Not established

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

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

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

Bioaccumulative potential

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HIT-HY 200-R		
Bioaccumulative potential	Not established	
1,1'-(p-tolylimino)dipropan-2-ol		
Partition coefficient n-octanol/water (Log Kow)	See section 12.1 on ecotoxicology	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl	ester	
Partition coefficient n-octanol/water (Log Pow)	3.1	
2,2'-(m-tolylimino)diethanol		
Partition coefficient n-octanol/water (Log Pow)	1.9	
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)	
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)	
obility in soil		
HIT-HY 200-R		
Ecology - soil	Not established	
1,1'-(p-tolylimino)dipropan-2-ol		
Partition coefficient n-octanol/water (Log	See section 12.1 on ecotoxicology	
Kow)		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl	ester	
Partition coefficient n-octanol/water (Log Pow)	3.1	
2,2'-(m-tolylimino)diethanol		
Partition coefficient n-octanol/water (Log Pow)	1.9	

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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)

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 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)

Other adverse effects

Classification procedure (Ozone) No data available

Other information Avoid release to the environment.

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 waste. 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

ADR	IMDG	IATA	RID		
14.1. UN number					
UN 3077	UN 3077	UN 3077	UN 3077		

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ADR	IMDG	IATA	RID		
14.2. UN proper shipping name					
1 1 11 5	I				
ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	Environmentally hazardous	ENVIRONMENTALLY HAZARDOUS		
SUBSTANCE, SOLID, N.O.S.	SUBSTANCE, SOLID, N.O.S.	substance, solid, n.o.s.	SUBSTANCE, SOLID, N.O.S.		
(dibenzoyl peroxide)	(dibenzoyl peroxide)	(dibenzoyl peroxide)	(dibenzoyl peroxide)		
Transport document description					
UN 3077 ENVIRONMENTALLY	UN 3077 ENVIRONMENTALLY	UN 3077 Environmentally	UN 3077 ENVIRONMENTALLY		
HAZARDOUS SUBSTANCE, SOLID,	HAZARDOUS SUBSTANCE, SOLID,	hazardous substance, solid,	HAZARDOUS SUBSTANCE, SOLID,		
N.O.S. (dibenzoyl peroxide),	N.O.S. (dibenzoyl peroxide),	n.o.s. (dibenzoyl peroxide),	N.O.S. (dibenzoyl peroxide),		
9, III, (-)	9, III, MARINE POLLUTANT	9, III	9, III		
14.3. Transport hazard class(es)					
9	9	9	9		
14.4. Packing group					
III	III	III	III		
14.5. Environmental hazards					
Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:		
Yes	Yes	Yes	Yes		
	Marine pollutant: Yes				
not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7					

14.6. Special precautions for user

Overland transport

Classification code (ADR)
Special provisions (ADR)
Limited quantities (ADR)

Packing instructions (ADR)

Mixed packing provisions (ADR)

Transport category (ADR)

Orange plates

M7

274, 335, 375, 601

5kg

P002, IBC08, LP02, R001

MP10

3

9

Tunnel restriction code (ADR)

90 3077

Transport by sea

Special provisions (IMDG) 274, 335, 966, 967, 969

Limited quantities (IMDG) 5 kg
Packing instructions (IMDG) LP02, P002
EmS-No. (Fire) F-A

EmS-No. (Fire) F-A
EmS-No. (Spillage) S-F

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Stowage category (IMDG) A
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. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

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SECTION 15 Regulatory information

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing Chemical Substances in : Listed

China (IECSC)

Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)

Catalogue of Hazardous Chemicals (2015) : Listed

Identification of major hazard installations : Not listed

for dangerous chemicals (GB 18218)

Catalogue of Severely Restricted Toxic : Not listed

Chemicals

Catalogue of Explosive Precursor Dangerous

Catalogue of Explosive fleculsof Dangelous

Chemicals

Catalogue of Hazardous Chemicals Prohibited : N

: Not listed

: Not listed

from Inland Waterway Transport

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

Catalogue for Classification of Hazardous : Listed

Factors of Occupational Diseases

List of Highly Toxic Substances : Not listed

Regulations on Administration of Chemicals Subjected to Supervision and Control

Catalogue of Controlled Chemicals : Not listed

Regulation on the Administration of Precursor Chemicals (Decree 445 of the State Council)

Catalogue of Precursor Chemicals : Not listed

Regulations on Administration of Ozone Depleting Substances (Decree 573 of the State Council)

List of Ozone-Depleting Substances under : Not listed

Control in China

Other domestic regulatory lists

Dangerous Goods List (GB 12268-2012) : Listed
List of Export Control of Chemical Agents and : Not listed

Related Equipment and Technologies

List of Goods Prohibited from Export (No. 3) : Not listed

or Import (No. 6)

Inventory of Hazardous Chemicals under Key : Listed

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

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BCF Bioconcentration factor

CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

DMEL Derived Minimal Effect level

DNEL Derived-No Effect Level

EC50 Median effective concentration

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IMDG International Maritime Dangerous Goods

LC50 Median lethal concentration

LD50 Median lethal dose

LOAEL Lowest Observed Adverse Effect Level

NOAEC No-Observed Adverse Effect Concentration

NOAEL No-Observed Adverse Effect Level

NOEC No-Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent Bioaccumulative Toxic

PNEC Predicted No-Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

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vPvB Very Persistent and Very Bioaccumulative

Other information None

Indication of changes

Section	Changed item	Change	Comments
1.	Emergency number.	Modified.	
14.	Transportation information.	Added.	
2.	Classification (GHS CN).	Modified.	
3.	Composition/information on ingredients.	Modified.	

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SDS_CN_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.

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