



# HIT-HY 170

## Safety Data Sheet

According to GB/T 16483, GB/T 17519

Version:4.0

Revision date: 2025/07/28

Issue date: 2025/07/28

Supersedes: 2021/09/08

### SECTION 1 Chemical product and company identification

#### Product identifier

Product form	Mixture
Product name	HIT-HY 170
Product code	BU Anchor
Chemical Chinese name	锚固嵌缝剂 HIT-HY 170 / Injection Mortar HIT-HY 170
Chemical English name	Injection Mortar HIT-HY 170



Recommended use of the chemical	Composite mortar component for fasteners in the construction industry
Restricted use of the chemical	For professional use only

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

<b>Supplier</b>	<b>Department issuing data specification sheet</b>
Hilti (China) Ltd.	Hilti
8F, Tower 2, No.58 Yao Yuan Rd.	Entwicklungsgesellschaft mbH
Pudong District	Hiltistraße 6
200126 Shanghai - China	86916 Kaufering - Deutschland
T +86 21 6016 7316	T +49 8191 906876
<a href="mailto:cncs@hilti.com">cncs@hilti.com</a>	<a href="mailto:anchor.hse@hilti.com">anchor.hse@hilti.com</a>

#### Emergency telephone number

Emergency number	Emergency CONTACT (24-Hour-Number)
	GBK GmbH Global Regulatory Compliance
	+49 (0) 6132-84463

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

### SECTION 2 Hazards identification



#### Emergency overview

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

**GHS hazard classification**

Health hazards	Serious eye damage/eye irritation, Category 2A Skin sensitization, Category 1
Environmental hazards	Hazardous to the aquatic environment - Acute hazard, Category 1 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)	Warning.
Hazard statements (GHS CN)	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. P280 - Wear eye protection, protective clothing, protective gloves.
Incident response	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.
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
Symptoms/effects after skin contact	May cause an allergic skin reaction.

**Environmental hazards**

Very toxic to aquatic life with long lasting effects

**Other hazards**

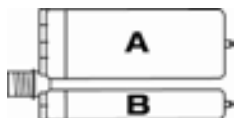
No additional information available

### SECTION 3 Composition/information on ingredients

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized



A		
Name	CAS No.	%
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	27813-02-1	10-25
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	2082-81-7	1-2.5
1,1'-(p-tolylimino)dipropan-2-ol	38668-48-3	0.1-1

B		
Name	CAS No.	%
dibenzoylperoxide	94-36-0	5-10

### 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
------------------------------------	-----------------------------



# HIT-HY 170

## Safety Data Sheet

According to GB/T 17519-2013 and GB 30000

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

### 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	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	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

### Personal precautions, protective equipment 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 and Emergency Procedures	No additional information available

### 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



# HIT-HY 170

## Safety Data Sheet

According to GB/T 17519-2013 and GB 30000

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 accidents

Prevention Measures for Secondary Accidents	No additional information available
Other information	Dispose of materials or solid residues at an authorized site

## 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
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.
Local and general ventilation	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.
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

#### HIT-HY 170

#### 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

### Appropriate engineering controls

Ensure adequate ventilation

### 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. 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.

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves.	Nitrile rubber (NBR).	3 (> 60 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

Personal protective equipment symbol(s)



## SECTION 9 Physical and chemical properties

Physical state	Solid
Appearance	Thixotropic paste
Colour	component A: grey, component B: white
Odour	characteristic
Odour threshold [ppm]	Not determined
pH	No data available
Melting point	No data available
Freezing point	Not applicable
Boiling point	Not applicable
Flash point	> 109 °C (A)
Auto-ignition temperature	Not self-igniting



# HIT-HY 170

## Safety Data Sheet

According to GB/T 17519-2013 and GB 30000

Decomposition temperature	> 65 ° C (B).
Flammability	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	(A: 1,65 g/cm <sup>3</sup> B: 1,7 g/cm <sup>3</sup> )
Solubility	No data available
Solubility in water	Not miscible
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, dynamic	90 - 100 Pa·s
Lower explosion limit	No data available
Upper explosion limit	No data available
Radioactive	No
Explosive properties	Product is not explosive

## SECTION 10 Stability and reactivity

Chemical stability	Stable under normal conditions
Reactivity	No additional information available
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-, 1,4-butanediyl ester (2082-81-7)

LD50 oral rat	10066 mg/kg
LD50 oral	10060 mg/kg
LD50 dermal rat	> 3000 mg/kg

### 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)

### Skin corrosion/irritation

Skin corrosion/irritation	No data available
---------------------------	-------------------



# HIT-HY 170

## Safety Data Sheet

According to GB/T 17519-2013 and GB 30000

### 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 (94-36-0)

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

### Aspiration hazard

Aspiration hazard

No data available

### HIT-HY 170

Density

(A: 1,65 g/cm<sup>3</sup>    B: 1,7 g/cm<sup>3</sup>    )

## SECTION 12 Ecological information

### Ecotoxicity

Ecology - water

Very toxic to aquatic life.

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

Very toxic to aquatic life.

Hazardous to the aquatic  
environment, long-term  
(chronic)

Very toxic to aquatic life with long lasting effects.

### dibenzoyl peroxide (94-36-0)

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/l





# HIT-HY 170

## Safety Data Sheet

According to GB/T 17519-2013 and GB 30000

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)
Partition coefficient n-octanol/water (Log Pow)	3.71
<b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b>	
ErC50 algae	9.79 mg/l
NOEC chronic crustacea	5.09 mg/l
NOEC chronic algae	2.11 mg/l
Partition coefficient n-octanol/water (Log Pow)	3.1
<b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b>	
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)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (log Koc, Calculated value)
Partition coefficient n-octanol/water (Log Pow)	0.97 (OECD 102 method)

### Persistence and degradability

#### HIT-HY 170

Persistence and degradability Not established

<b>dibenzoyl peroxide (94-36-0)</b>	
Persistence and degradability	Readily biodegradable in water Not established May cause long-term adverse effects in the environment
<b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b>	
Biodegradation	84 %
<b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b>	
Not rapidly degradable	Yes
Persistence and degradability	Readily biodegradable in water

### Bioaccumulative potential

#### HIT-HY 170

Bioaccumulative potential Not established

<b>dibenzoyl peroxide (94-36-0)</b>	
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)



# HIT-HY 170

## Safety Data Sheet

According to GB/T 17519-2013 and GB 30000

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
Partition coefficient n-octanol/water (Log Pow)	3.1
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500)
BCF - Fish [1]	See section 12.1 on ecotoxicology ≤ 100
BCF - Fish [2]	See section 12.1 on ecotoxicology 3.2 Quantitative structure-activity relationship (QSAR)
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)

### Mobility in soil

#### HIT-HY 170

Bioaccumulative potential                      Not established

dibenzoyl peroxide (94-36-0)	
Bioaccumulative potential	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)
Ecology - soil	Low potential for mobility in soil.
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
Partition coefficient n-octanol/water (Log Pow)	3.1
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
Bioaccumulative potential	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)
Ecology - soil	Highly mobile in soil.

### 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 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

### Ecological waste information

Avoid release to the environment.

### Regional waste regulation

Disposal must be done according to official regulations

## SECTION 14 Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
Special provision(s) applied : 375	Special provision(s) applied : 969	Special provision(s) applied : A197	Special provision(s) applied : 375
These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of the transport regulations provided the packagings meet the general provisions.			
<b>14.1. UN number or ID number</b>			
UN 3077	UN 3077	UN 3077	UN 3077
<b>14.2. UN proper shipping name</b>			
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)
<b>Transport document description</b>			
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	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
<b>14.3. Transport hazard class(es)</b>			
9	9	9	9
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes



# HIT-HY 170

## Safety Data Sheet

According to GB/T 17519-2013 and GB 30000

ADR	IMDG	IATA	RID
Environmentally hazardous substances derogation applies (quantity of liquids $\leq 5$ litres or net mass of solids $\leq 5$ kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.			
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)	M7
Special provisions (ADR)	274, 335, 375, 601
Limited quantities (ADR)	5 kg
Packing instructions (ADR)	P002, IBC08, LP02, R001
Mixed packing provisions (ADR)	MP10
Transport category (ADR)	3
Orange plates	



Tunnel restriction code (ADR)	-
-------------------------------	---

#### Transport by sea

Special provisions (IMDG)	274, 335, 375, 966, 967, 969
Limited quantities (IMDG)	5 kg
Packing instructions (IMDG)	LP02, P002
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	A
Stowage and handling (IMDG)	SW23

#### Air transport

PCA packing instructions (IATA)	956
PCA max net quantity (IATA)	400 kg
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)	5 kg
Packing instructions (RID)	P002, IBC08, LP02, R001

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15 Regulatory information

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



# HIT-HY 170

## Safety Data Sheet

According to GB/T 17519-2013 and GB 30000

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
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 Control in China	Not listed
Other domestic regulatory lists	
Dangerous Goods List (GB 12268)	Not listed
List of Goods Prohibited from Export or Import	Not listed

## SECTION 16 Other information

Other information	None
-------------------	------

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.