HIT-HY 200-A V3

Safety Data Sheet

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

Version:1.0

Revision date: Issue date: 2022/10/19 Supersedes:

SECTION 1 Chemical product and company identification

Product identifier

Product name	HIT-HY 200-A V3
Product code	BU Anchor
Chemical Chinese name	锚固粘接剂 HIT-HY 200-A V3
Chemical English name	Injection Mortar HIT-HY 200-A V3
	
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 / chemical accident emergency consultation service hotline (24/7)		+86 532 83889090

SECTION 2 Hazards identification

Emergency overview

component A: blue, component B: white. Non flammable. Use personal protective equipment as required. Equip cleanup crew with proper protection

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GHS hazard classification

Health hazards	Serious eye damage/eye irritation, Category 2
	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	Causes serious eye 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

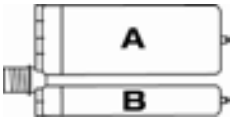
No additional information available

SECTION 3 Composition/information on ingredients

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized



A		
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 - 8	27813-02-1
1,1'-(p-tolylimino)dipropan-2-ol	0 - 1	38668-48-3

B		
Ingredient(s)	Concentration or concentration ranges (w/w %)	CAS No.
dibenzoyl peroxide	10 - 15	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	Causes serious eye irritation.
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	No additional information available

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
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

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	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	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.
For containment	Collect spillage.
Other information	Dispose of materials or solid residues at an authorized site.

Prevention measures for secondary accidents

Prevention Measures for Secondary Accidents	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
Hygiene measures	Do not eat, drink or smoke while using this product. Wash hands, forearms and face thoroughly after handling. 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

SECTION 8 Exposure controls / Personal protection equipment

Occupational exposure limits

HIT-HY 200-A V3, B	
China - Occupational Exposure Limits	
Local name	过氧化苯甲酰 # Benzoyl peroxide
OEL PC-TWA	5 mg/m³
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/m³
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	Not applicable.
Consumer exposure controls	Avoid contact during pregnancy/while nursing.
Other information	Do not eat, drink or smoke during use
Materials for protective clothing	Long sleeved protective clothing
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).	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

Personal protective equipment symbol(s)

SECTION 9 Physical and chemical properties

Physical state	Solid
Appearance	No data available
Colour	component A: blue, component B: white
Odour	characteristic
pH	No data available
Melting point	No data available
Freezing point	Not applicable
Boiling point	component A: 240° C, component B: 100° C
Flash point	component A: >109° C DIN EN ISO 1523, component B: not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Radioactive	No

SECTION 10 Stability and reactivity

Chemical stability	Not established
Reactivity	No additional information available

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

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
LD50 oral rat	10066 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

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

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
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

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LC50 - Fish [1]	≈ 17 mg/l
EC50 - Crustacea [1]	28.8 mg/l
Partition coefficient n-octanol/water (Log Kow)	2.1

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)	
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

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Persistence and degradability Not established

dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water Not established May cause long-term adverse effects in the environment

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
Not rapidly degradable	Yes
Biodegradation	84 %

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
Not rapidly degradable	Yes
Persistence and degradability	Readily biodegradable in water

Bioaccumulative potential

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Bioaccumulative potential Not established

dibenzoyl peroxide (94-36-0)	
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)

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Partition coefficient n-octanol/water (Log Kow)	See section 12.1 on ecotoxicology2.1

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 ecotoxicology3.2 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

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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.

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Partition coefficient n-octanol/water (Log Kow)	See section 12.1 on ecotoxicology2.1

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.

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

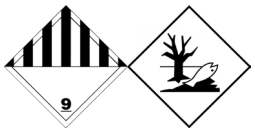
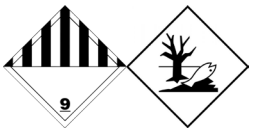
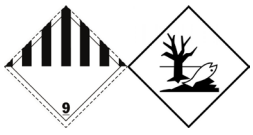
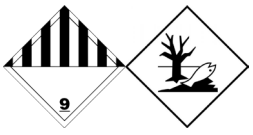
SECTION 13 Disposal considerations

Waste treatment methods No additional information available

Contaminated container and packaging	No additional information available
Additional information	No additional information available
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecology - waste materials	Avoid release to the environment.

SECTION 14 Transport information

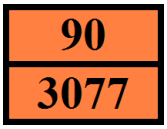
In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping name			
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	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(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
Environmentally hazardous substances derogation applies (quantity of liquids ⩽ 5 litres or net mass of solids ⩽ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.			

ADR	IMDG	IATA	RID
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)	5kg
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, 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)	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 to IMO instruments

Not applicable

SECTION 15 Regulatory information

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

Inventory of Existing Chemical Substances in China (IECSC)	Listed
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 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	Not listed
Law of the People's Republic of China on the Prevention and Control of Occupational Diseases	
Catalogue for Classification of Hazardous Factors of Occupational Diseases	Listed
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 Control in China	Not listed
Other domestic regulatory lists	
Dangerous Goods List (GB 12268-2012)	Listed
List of Export Control of Chemical Agents and Related Equipment and Technologies	Not listed
List of Goods Prohibited from Export (No. 3) or Import (No.6)	Not listed
Inventory of Hazardous Chemicals under Key Supervision	Not listed

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SECTION 16 Other information

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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.