

## HIT-HY 200-R

#### Safety information for 2-Component-products

Issue date: 13/09/2022 Revision date: 13/09/2022 Supersedes: 27/09/2018 Version: 3.3

## **SECTION 1: Kit identification**

#### 1.1 Product identifier

Product name HIT-HY 200-R



Product code BU Anchor

#### 1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti (Hong Kong) Ltd.
701-704, 7/F, Tower A, Manulife Financial Centre
223 Wai Yip Street, Kwun Tong
Kowloon - Hong Kong
T +852 27734 700
<a href="mailto:hksales@hilti.com">hksales@hilti.com</a>

## **SECTION 2: General information**

Storage Storage temperature : 5 - 25 °C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

#### **SECTION 3:**

#### **Classification of the Product**

#### Classification according to the United Nations GHS

 Eye Irrit. 2A
 H319

 Skin Sens. 1
 H317

 Aquatic Acute 1
 H400

 Aquatic Chronic 1
 H410

#### Label elements

## Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)





GHS07

GHS

Signal word (GHS UN)

Hazardous ingredients

Hazard statements (GHS UN)

methacrylates, dibenzoyl peroxide

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 UN) P280 - Wear eye protection, protective clothing, protective gloves.

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

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

contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of water.

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## HIT-HY 200-R

## Safety information for 2-Component-products

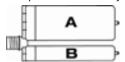
P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

#### **Additional information**

2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized



Name	General description	Quantity	Unit	Classification according to the United Nations GHS
HIT-HY 200-R, A		1	pcs (pieces)	Skin Sens. 1, H317
HIT-HY 200-R, B		1	pcs (pieces)	Org. Perox. Not classified Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

## **SECTION 4: General advice**

General advice For professional users only

#### **SECTION 5: Safe handling advice**

General measures Spilled material may present a slipping hazard **Environmental precautions** Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

Storage conditions Keep cool. Protect from sunlight. Wear personal protective equipment Precautions for safe handling 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

Methods for cleaning up This material and its container must be disposed of in a safe way, and as per local legislation

Mechanically recover the product Store away from other materials.

For containment Collect spillage Incompatible materials Sources of ignition Direct sunlight Incompatible products

Strong bases Strong acids

#### **SECTION 6: First aid measures**

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

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

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## HIT-HY 200-R

## Safety information for 2-Component-products

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 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)

Symptoms/effects after eye contact May cause severe irritation

Symptoms/effects after skin contact

May cause an allergic skin reaction.

## **SECTION 7: Fire fighting 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

Hazardous decomposition products in case of

re Carbon d

Thermal decomposition generates : Carbon dioxide

Carbon monoxide

## **SECTION 8: Other information**

No data available

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## Safety Data Sheet

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

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Supersedes: 27/09/2018 Version: 3.3

## **SECTION 1: Identification**

#### 1.1. GHS Product identifier

Product form Mixture

Product name HIT-HY 200-R, B

UN-No. (ADR) 3077
Product code BU Anchor

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture Composite mortar component for fasteners in the construction industry

Recommended use For professional use only

#### 1.4. Supplier's details

#### Supplier

Hilti (Hong Kong) Ltd.

701-704, 7/F, Tower A, Manulife Financial Centre

223 Wai Yip Street, Kwun Tong

HK- Kowloon Hong Kong T +852 27734 700

hksales@hilti.com

#### Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6

DE- 86916 Kaufering Deutschland T +49 8191 906876

anchor.hse@hilti.com

#### 1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+852 27734 700

#### **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

#### Classification according to the United Nations GHS

Organic peroxide Not classified

Serious eye damage/eye irritation, Category 2A

Skin sensitisation, Category 1

Hazardous to the aquatic environment – Acute Hazard, Category 1

Hazardous to the aquatic environment – Chronic Hazard, Category 1

Hazardous to the aquatic environment – Chronic Hazard, Category 1

Hazardous to the aquatic environment – Chronic Hazard, Category 1

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Hazardous to the aquatic environment – Chronic Hazard, Category 1

Hazardous to the aquatic environment – Chronic Hazard, Category 1

Full text of H-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)





Signal word (GHS UN)

Hazardous ingredients

Hazard statements (GHS UN)

Warning

dibenzoyl peroxide

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects

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

Precautionary statements (GHS UN) P280 - Wear eye protection, protective clothing, protective gloves.

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

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

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

P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.

P337+P313 - If eye irritation persists: Get medical advice, medical attention.

P302+P352 - IF ON SKIN: Wash with plenty of water.

#### 2.3. Other hazards which do not result in classification

No additional information available

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
dibenzoyl peroxide	CAS-No.: 94-36-0	10 – 25	Organic Peroxides, Type B, H241 Serious eye damage/eye irritation, Category 2, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment – Acute Hazard, Category 1, H400 (M=10) Hazardous to the aquatic environment – Chronic Hazard, Category 1, H410 (M=10)

Full text of H-statements: see section 16

## **SECTION 4: First-aid measures**

#### 4.1. 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.

#### 4.2. Most important symptoms/effects, acute and delayed

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

Symptoms/effects after eye contact May cause severe irritation.

Potential adverse human health effects and No additional information available.

symptoms

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

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

## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

#### 5.3. Special protective actions for fire-fighters

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**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and materials for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local

legislation. Mechanically recover the product. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and

other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

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.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Incompatible products

Incompatible materials

Heat and ignition sources

Keep cool. Protect from sunlight.

Strong bases. Strong acids.

Sources of ignition. Direct sunlight.

Keep away from heat and direct sunlight.

Storage temperature 5 – 25 °C

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

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## 8.2. Appropriate engineering controls

Appropriate engineering controls Ensure adequate ventilation.

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.

#### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection Wear protective gloves. The permeation time is not the maximum wearing time! Generally

speaking, it must be reduced. Contact with either mixtures of substances or different

substances may shorten the protective function's effective duration.

Туре	Material	Permeation	Thickness (mm)	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

Personal protective equipment symbol(s)







#### 8.4. Exposure limit values for the other components

No additional information available

## **SECTION 9: Physical and chemical properties**

#### 9.1. Basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste

Colour white.

characteristic. Odour Odour threshold Not determined Melting point Not available Not available Freezing point Not available Boiling point Flammability Flammable Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Not applicable Not self-igniting Auto-ignition temperature Not available Decomposition temperature 65 °C SADT рΗ Not available pH solution Not available 21052.632 mm<sup>2</sup>/s Viscosity, kinematic (calculated value) (40 °C) Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50 °C Not available Density 1.9 g/ml AW 4.3.23

Relative density

Relative vapour density at 20 °C

Solubility

Viscosity, dynamic

Not available

Not applicable

Water: Not miscible

40 Pa-s HN-0333

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Particle size Not available

#### 9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive properties Product is not explosive

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified Not classified Skin corrosion/irritation

Serious eye damage/irritation Causes serious eye irritation. Respiratory or skin sensitisation May cause an allergic skin reaction.

Not classified Germ cell mutagenicity Carcinogenicity Not classified Reproductive toxicity Not classified STOT-single exposure Not classified STOT-repeated exposure Not classified Aspiration hazard Not classified

#### HIT-HY 200-R, B

Viscosity, kinematic 21052.632 mm<sup>2</sup>/s

#### dibenzoyl peroxide

Animal studies and expert judgment for classification False

Potential adverse human health effects and

No additional information available.

symptoms

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term

Very toxic to aquatic life.

(acute)

Classification procedure (Hazardous to the aquatic

environment, short-term (acute))

Calculation method

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

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

Very toxic to aquatic life with long lasting effects.

Classification procedure (Hazardous to the aquatic

Calculation method

environment, long-term (chronic))

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 (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)		
NOEC chronic fish	0.001 mg/l		

## 12.2. Persistence and degradability

HIT-HY 200-R, B		
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.	

## 12.3. Bioaccumulative potential

HIT-HY 200-R, B		
Bioaccumulative potential	Not established.	
dibenzoyl peroxide (94-36-0)		
Partition coefficient n-octanol/water (Log Kow)	3.71	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).	

## 12.4. Mobility in soil

HIT-HY 200-R, B		
Mobility in soil	No additional information available	
dibenzoyl peroxide (94-36-0)		
Surface tension	No data available (test not performed)	
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.	

#### 12.5. Other adverse effects

Ozone Not classified

Other adverse effects

No additional information available
Other information

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

Regional legislation (waste) Dispo

Disposal must be done according to official regulations.

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## Safety Data Sheet

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

Product/Packaging disposal recommendations

After curing, the product can be disposed of with household waste. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials

Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN 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, 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(e	s)		
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

## 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

274, 335, 375, 601

5Kg

P002, IBC08, LP02, R001

MP10 3

90

3077

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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. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

## **SECTION 16: Other information**

 SDS Major/Minor
 None

 Issue date
 13/09/2022

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 Supersedes
 27/09/2018

Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	
14	Transport information	Added	

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 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

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## Safety Data Sheet

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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

TLM - Median Tolerance Limit

vPvB - Very Persistent and Very Bioaccumulative

Other information None.

Full text of H-statements:		
H241	Heating may cause a fire or explosion	
H317 May cause an allergic skin reaction		
H319	Causes serious eye irritation	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

#### SDS\_UN\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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## Safety Data Sheet

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

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Supersedes: 27/09/2018 Version: 3.4

## **SECTION 1: Identification**

#### 1.1. GHS Product identifier

Product form Mixture Product name HIT-HY 200-R, A Product code **BU** Anchor

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture Composite mortar component for fasteners in the construction industry Recommended use For professional use only

## 1.4. Supplier's details

#### Supplier

Hilti (Hong Kong) Ltd.

701-704, 7/F, Tower A, Manulife Financial Centre

223 Wai Yip Street, Kwun Tong

HK- Kowloon Hong Kong T +852 27734 700 hksales@hilti.com

#### Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6 DE- 86916 Kaufering

Deutschland T +49 8191 906876 anchor.hse@hilti.com

#### 1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+852 27734 700

## **SECTION 2: Hazard identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to the United Nations GHS

Skin sensitisation, Category 1 H317 Calculation method

Full text of H-statements: see section 16

## 2.2. GHS Label elements, including precautionary statements

## Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)

Precautionary statements (GHS UN)



Signal word (GHS UN)

Hazardous ingredients

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2,2'-(m-tolylimino)diethanol, 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol

Hazard statements (GHS UN) H317 - May cause an allergic skin reaction

P280 - Wear eye protection, protective clothing, protective gloves.

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

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

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

P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.

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

P337+P313 - If eye irritation persists: Get medical advice, medical attention.

P302+P352 - IF ON SKIN: Wash with plenty of water.

#### 2.3. Other hazards which do not result in classification

No additional information available

## **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	CAS-No.: 2082-81-7	10 – 25	Acute toxicity (oral) Not classified Skin sensitisation, category 1B, H317
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	CAS-No.: 27813-02-1	5 – 10	Flammable liquids Not classified Acute toxicity (oral) Not classified Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317
1,1'-(p-tolylimino)dipropan-2-ol	CAS-No.: 38668-48-3	0.1 – 1	Acute toxicity (oral), Category 2, H300 Serious eye damage/eye irritation, Category 2A, H319 Hazardous to the aquatic environment – Acute Hazard, Category 3, H402 Hazardous to the aquatic environment – Chronic Hazard, Category 3, H412

Full text of H-statements: see section 16

## **SECTION 4: First-aid measures**

#### 4.1. Description of 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.

## 4.2. Most important symptoms/effects, acute and delayed

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

Potential adverse human health effects and No additional information available.

symptoms

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

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## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

#### 5.3. Special protective actions for fire-fighters

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**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and materials for containment and cleaning up

No additional information available

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

No additional information available

#### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible productsStrong bases. Strong acids.Incompatible materialsSources of ignition. Direct sunlight.Heat and ignition sourcesKeep away from heat and direct sunlight.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

## 8.2. Appropriate engineering controls

Appropriate engineering controls Ensure adequate ventilation.

#### 8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different

speaking, it must be reduced. Contact with either mixtures of substances or diff substances may shorten the protective function's effective duration.

TypeMaterialPermeationThickness (mm)PenetrationStandardDisposable glovesNitrile rubber (NBR)6 (> 480 minutes)0,12EN ISO 374

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Eye protection	protection Wear security glasses which protect from splashes		
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Personal protective equipment symbol(s)







#### 8.4. Exposure limit values for the other components

No additional information available

## **SECTION 9: Physical and chemical properties**

#### 9.1. Basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste Colour Light grey. Odour characteristic. Odour threshold Not determined Melting point Not available Freezing point Not available Boiling point Not available Flammable Flammability Lower explosion limit Not applicable Upper explosion limit Not applicable

Flash point > 109 °C DIN EN ISO 1523

Auto-ignition temperature Not self-igniting Decomposition temperature Not available Not available pH solution Not available Viscosity, kinematic (calculated value) (40 °C) 27777.778 mm<sup>2</sup>/s Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50 °C Not available 1.8 g/ml AW 4.3.23 Density Relative density Not available Relative vapour density at 20 °C Not applicable Water: Not miscible Solubility 50 Pa·s HN-0333 Viscosity, dynamic Not available Particle size

#### 9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive properties Product is not explosive

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

## 10.2. Chemical stability

No additional information available

#### 10.3. Possibility of hazardous reactions

No additional information available

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#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

No additional information available

## **SECTION 11: Toxicological information**

11 1	Information	on toxicological effects	

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

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)

	> 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 Not classified Serious eye damage/irritation Not classified

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

Not classified

Not classified

Not classified

Not classified

## HIT-HY 200-R, A

Viscosity, kinematic 27777.778 mm²/s

#### 1,1'-(p-tolylimino)dipropan-2-ol

Animal studies and expert judgment for classification False

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

Animal studies and expert judgment for classification False

#### 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol

Animal studies and expert judgment for classification False

Potential adverse human health effects and No additional information available.

symptoms

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SECTION 12: Ecological informatio	n
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SECTION 12: Ecological Information			
12.1. Toxicity			
Hazardous to the aquatic environment, short–term (acute)	Not classified		
Hazardous to the aquatic environment, long-term (chronic)	Not classified		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)			
LC50 - Fish [1]	≈ 17 mg/l		
LC50 - Other aquatic organisms [1]	245 mg/l		
EC50 - Crustacea [1]	28.8 mg/l		
NOEC (acute)	57.8 mg/l		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl es	ster (2082-81-7)		
LC50 - Other aquatic organisms [1]	9.79 mg/l		
NOEC (acute)	7.51 mg/l		
NOEC (chronic)	20 mg/l		
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)		
Threshold limit - Algae [1]	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)		
Threshold limit - Algae [2]	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)		
12.2. Persistence and degradability			
HIT-HY 200-R, A			
Persistence and degradability	Not established.		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)			
Not rapidly degradable			
Biodegradation	84 %		
2-Propenoic acid, 2-methyl-, monoester with	1,2-propanediol (27813-02-1)		
Not rapidly degradable			
Persistence and degradability	Readily biodegradable in water.		
12.3. Bioaccumulative potential			
HIT-HY 200-R, A			
Bioaccumulative potential	Not established.		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
Partition coefficient n-octanol/water (Log Pow)	2.1		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl es	ster (2082-81-7)		
Partition coefficient n-octanol/water (Log Kow)	3.1		
2-Propenoic acid, 2-methyl-, monoester with	1,2-propanediol (27813-02-1)		
BCF - Fish [1]	≤ 100		

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2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
BCF - Fish [2]	3.2 Quantitative structure-activity relationship (QSAR)
Partition coefficient n-octanol/water (Log Kow)	0.97 (OECD 102 method)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

## 12.4. Mobility in soil

HIT-HY 200-R, A	
Mobility in soil	No additional information available
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.9 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

#### 12.5. Other adverse effects

Ozone Not classified

Other adverse effects

No additional information available

Other information

Avoid release to the environment.

## **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Regional legislation (waste)

Disposal must be done according to official regulations.

Product/Packaging disposal recommendations After curing, the product can be disposed of with household waste. . Full or only partially

emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in

accordance with local/national regulations.

Ecology - waste materials Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name	e		
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(e	s)		
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

## 14.6. Special precautions for user

#### Overland transport

Not regulated

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#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Rail transport

Not regulated

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

#### **SECTION 16: Other information**

 SDS Major/Minor
 None

 Issue date
 13/09/2022

 Revision date
 13/09/2022

 Supersedes
 27/09/2018

Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	

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

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

SDS - Safety Data Sheet

vPvB - Very Persistent and Very Bioaccumulative

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Other information None.

Full text of H-statements:	
H300	Fatal if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

SDS\_UN\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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