

### HIT-HY 200-R V3

### Safety information for 2-Component-products

Issue date: 29/02/2024 Revision date: 29/02/2024 Supersedes: 13/01/2021 Version: 1.1

### **SECTION 1: Kit identification**

### 1.1 Product identifier

Product name HIT-HY 200-R V3

Product code BU Anchor



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

Hilti (Malaysia) Sdn. Bhd.
F-5-A, Sime Darby Brunsfield Tower, No. 2, Jalan PJU 1A/7A
Oasis Square, Oasis Damansara
47301 Petaling Jaya, Selangor - Malaysia
T +60 3 5628 7222
1800 880 985 toll free - F +60 3 7848 7399
myhilti@hilti.com

### **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: Kit contents**

### **Classification of the Product**

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2014)

 Eye Irrit. 2
 H319

 Skin Sens. 1
 H317

 Aquatic Acute 1
 H400

 Aquatic Chronic 1
 H410

### Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2014)

Warning

Hazard pictograms (GHS MY)





GHS07 GHS09

Signal word (GHS MY)

Hazard statements (GHS MY)

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H410 - Very toxic to aquatic life with long lasting effects

18/02/2025 MY - en 1/21



### HIT-HY 200-R V3

### Kit Safety Information Sheet (SIS)

Precautionary statements (GHS MY)

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

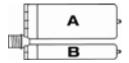
contact lenses, if present and easy to do. Continue rinsing P302+P352 - IF ON SKIN: Wash with plenty of soap and water P337+P313 - If eye irritation persists: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

#### **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 Industry Code of Practice on chemicals classification and hazard communication (2014)
HIT-HY 200-R V3, B		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HIT-HY 200-R V3, A		1	pcs (pieces)	Skin Sens. 1, H317 Aquatic Acute Not classified Aquatic Chronic Not classified

### **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.

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

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 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

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### HIT-HY 200-R V3

### Kit Safety Information Sheet (SIS)

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

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.

Other medical advice or treatment Treat symptomatically

### **SECTION 7: Fire fighting measures**

Firefighting instructions Use water spray or fog for cooling exposed containers

Exercise caution when fighting any chemical fire

Thermal decomposition generates:

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

Carbon dioxide Carbon monoxide

### **SECTION 8: Other information**

No data available

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### Safety Data Sheet

According to ICOP 2014

Issue date: 29/02/2024 Revision date: 29/2/2024 Supersedes: 13/01/2021 Version: 1.1

### SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Name HIT-HY 200-R V3, B

Chemical name Injection Mortar HIT-HY 200-R V3

1.2. Other means of identification

Product code **BU Anchor** 

1.3. Recommended use of the chemical and restrictions on use

Restrictions on use For professional use only

1.4. Supplier details

Supplier Hilti (Malaysia) Sdn. Bhd.

F-5-A, Sime Darby Brunsfield Tower, No. 2, Jalan PJU 1A/7A

Oasis Square, Oasis Damansara 47301 Petaling Jaya, Selangor

Malaysia

T+60 3 5628 7222

1800 880 985 toll free - F +60 3 7848 7399

myhilti@hilti.com

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6 86916 Kaufering Deutschland T +49 8191 906876

product.compliance-anchors@hilti.com

### 1.5. Emergency phone number

**Emergency number** GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number	Comment
Malaysia	Malaysia National Poison Centre (NPC) Universiti Sains Malaysia	11800 Penang	+60 (0)4 6536 999 (Mon-Fri 8am-10pm; Sat, Sun & Public Holiday 8am-5pm)	

### **SECTION 2: Hazards identification**

### 2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Serious eye damage or eye irritation, Category 2 H319 Skin sensitisation, Category 1 H317 Hazardous to the aquatic environment - Acute Hazard, Category 1 H400 Hazardous to the aquatic environment - Chronic Hazard, Category 1 H410

### 2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY)





Signal word (GHS MY)

Hazard statements (GHS MY)

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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### Safety Data Sheet

According to ICOP 2014

Precautionary statements (GHS MY) 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 soap and water
P337+P313 - If eye irritation persists: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

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

No additional information available

### SECTION 3: Composition and information of the ingredients of the hazardous chemical

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
dibenzoyl peroxide	CAS-No.: 94-36-0	10 – 25

### **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.

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

### **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. Physicochemical hazards arising from the chemical

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

### 5.3. Special protective equipment and precautions for fire fighters

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.

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### Safety Data Sheet

According to ICOP 2014

EAC code 2Z

### **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 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.

### **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 conditionsKeep cool. Protect from sunlight.Incompatible productsStrong bases. Strong acids.Incompatible materialsSources of ignition. Direct sunlight.Heat and ignition sourcesKeep away from heat and direct sunlight.

Storage temperature 5-25 °C

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

### 8.1. Control parameters

HIT-HY 200-R V3, B		
Malaysia - Occupational Exposure Limits		
Local name	Benzoil peroksida # Benzoyl peroxide	
PEL (OEL TWA)	5 mg/m³	
MEL (mg/m³)	15 mg/m³	
dibenzoyl peroxide (94-36-0)		
Malaysia - Occupational Exposure Limits		
Local name	Benzoil peroksida # Benzoyl peroxide	
PEL (OEL TWA)	5 mg/m³	
MEL (mg/m³)	15 mg/m³	

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According to ICOP 2014

#### Exposure limit values for the other components

Additional information

The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.

### 8.1.1 Biological monitoring

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

### 8.3. Individual protection measures, such as 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. Change contaminated gloves after 30 min. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Туре	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

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

### Personal protective equipment symbol(s):



Relative density





Environmental exposure controls

Consumer exposure controls

No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety.

Avoid contact during pregnancy/while nursing.

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

Physical state Solid

Appearance Thixotropic paste. Colour

white

Odour characteristic Odour threshold Not determined No data available Melting point No data available Freezing point No data available

Boiling point No data available Flash point No data available Evaporation rate No data available Flammability (solid, gas) Flammable solid No data available **Explosive limits** Vapour pressure No data available Relative vapour density at 20°C No data available

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No data available



### Safety Data Sheet

According to ICOP 2014

Density

Solubility Water: Not miscible Partition coefficient n-octanol/water (Log Pow) No data available Partition coefficient n-octanol/water (Log Kow) No data available Auto-ignition temperature Not self-igniting Decomposition temperature No data available 21052.632 mm<sup>2</sup>/s Viscosity, kinematic 40 Pa·s HN-0333 Viscosity, dynamic Explosive properties Product is not explosive.

SADT 65 °C

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

Reactivity No data available

Chemical stability Stable under normal conditions Possibility of hazardous reactions No additional information available

Conditions to avoid Direct sunlight, Extremely high or low temperatures

Incompatible materials Strong acids, Strong bases

Hazardous decomposition products fume, Carbon monoxide, Carbon dioxide, Under normal conditions of storage and use,

1.9 g/ml AW 4.3.23

hazardous decomposition products should not be produced

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

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

Serious eye damage or eye irritation Causes serious eye irritation.

Respiratory sensitization Not classified

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Not classified Carcinogenicity Not classified

dibenzoyl peroxide (94-36-0)

IARC group 3 - Not classifiable

Not classified Reproductive toxicity Specific target organ toxicity (STOT) - single Not classified

Specific target organ toxicity (STOT) - repeated

Not classified exposure

Aspiration hazard Not classified

HIT-HY 200-R V3, B 21052.632 mm<sup>2</sup>/s Viscosity, kinematic

Potential adverse human health effects and No additional information available.

symptoms

exposure

### **SECTION 12: Ecological information**

### 12.1. Ecotoxicity

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.

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According to ICOP 2014

Other information Avoid release to the environment.

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	
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)	

### 12.2. Persistence and degradability

HIT-HY 200-R V3, 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 V3, B		
Bioaccumulative potential	Not established.	
dibenzoyl peroxide (94-36-0)		
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)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).	

### 12.4. Mobility in soil

•			
HIT-HY 200-R V3, B			
Mobility in soil	No additional information available		
dibenzoyl peroxide (94-36-0)			
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.		

### 12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

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### Safety Data Sheet

According to ICOP 2014

### **SECTION 13: Disposal information**

### 13.1. Disposal methods

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 information** 

Avoid release to the environment.

### **SECTION 14: Transportation information**

n 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			
or having a net mass per sing	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 ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.					
14.1. UN number or ID num	ber					
UN 3077	UN 3077 UN 3077 UN 3077 UN 3077					
14.2. UN proper shipping name						
ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS			

14.2. UN proper shipping n	ame		
ENVIRONMENTALLY	ENVIRONMENTALLY	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALLY
HAZARDOUS	HAZARDOUS	(dibenzoyl peroxide)	HAZARDOUS
SUBSTANCE, SOLID,	SUBSTANCE, SOLID,		SUBSTANCE, SOLID,
N.O.S. (dibenzoyl peroxide)	N.O.S. (dibenzoyl peroxide)		N.O.S. (dibenzoyl peroxide)
Transport document descr	intion		

### Transport document description

-	-		
UN 3077	UN 3077	UN 3077 Environmentally hazardous substance, solid,	UN 3077
ENVIRONMENTALLY	ENVIRONMENTALLY	n.o.s. (dibenzoyl peroxide), 9, III	ENVIRONMENTALLY
HAZARDOUS	HAZARDOUS		HAZARDOUS
SUBSTANCE, SOLID,	SUBSTANCE, SOLID,		SUBSTANCE, SOLID,
N.O.S. (dibenzoyl	N.O.S. (dibenzoyl		N.O.S. (dibenzoyl
peroxide), 9, III, (-)	peroxide), 9, III		peroxide), 9, III
14.3. Transport hazard clas	ss(es)		

9	9	9	9
**************************************	**************************************	**************************************	**************************************
14.4. Packing group			
III	III	III	III

14.5. Environmental hazard	ds		
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.

not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7

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### Safety Data Sheet

According to ICOP 2014

### 14.6. Special precautions for user

**Overland transport** 

Classification code (ADR)

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

90 3077

Tunnel restriction code (ADR)

EAC code 2Z

Transport by sea

Orange plates

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

Limited quantities (IMDG)5 kgPacking instructions (IMDG)LP02, P002EmS-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**

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

Regulation	Component/ Mixture
EHS Notification and Registration Scheme	

#### 15.2. International agreements

No additional information available

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

 Version
 1.1

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 29/2/2024

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 29/02/2024

 Supersedes
 13/01/2021

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### Safety Data Sheet

According to ICOP 2014

Indication of changes					
Section	Changed item	Change	Comments		
	Transport information	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

None.

Full text of H-statements

Full text of H-statements			
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 MY Hilti

Other information

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 ICOP 2014

Issue date: 29/02/2024 Revision date: 29/2/2024 Supersedes: 13/01/2021 Version: 1.1

### SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Name HIT-HY 200-R V3, A

Chemical name Injection Mortar HIT-HY 200-R V3

1.2. Other means of identification

Product code BU Anchor

1.3. Recommended use of the chemical and restrictions on use

Restrictions on use For professional use only

1.4. Supplier details

Supplier

Hilti (Malaysia) Sdn. Bhd.

F-5-A, Sime Darby Brunsfield Tower, No. 2, Jalan PJU 1A/7A

Oasis Square, Oasis Damansara 47301 Petaling Jaya, Selangor

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Department issuing data specification sheet

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### 1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number	Comment
Malaysia	Malaysia National Poison Centre (NPC) Universiti Sains Malaysia	11800 Penang	+60 (0)4 6536 999 (Mon-Fri 8am-10pm; Sat, Sun & Public Holiday 8am-5pm)	

### **SECTION 2: Hazards identification**

### 2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Skin sensitisation, Category 1 H317

### 2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY)

Signal word (GHS MY) Hazard statements (GHS MY)

Precautionary statements (GHS MY)

Warning

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

 ${\tt P305+P351+P338-IF\ IN\ EYES:\ Rinse\ cautiously\ with\ water\ for\ several\ minutes.\ Remove}$ 

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

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### Safety Data Sheet

According to ICOP 2014

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

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

No additional information available

### SECTION 3: Composition and information of the ingredients of the hazardous chemical

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	CAS-No.: 2082-81-7	10 – 25
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	CAS-No.: 27813-02-1	5 – 10
1,1'-(p-tolylimino)dipropan-2-ol	CAS-No.: 38668-48-3	0.1 – 1
2,2'-(m-tolylimino)diethanol	CAS-No.: 91-99-6	0.1 – 1

### **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.

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

### **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. Physicochemical hazards arising from the chemical

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

### 5.3. Special protective equipment and precautions for fire fighters

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.

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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.

### **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. 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 Keep cool. Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Heat and ignition sources Keep away from heat and direct sunlight.

Storage temperature 5-25 °C

### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters

Hygiene measures

HIT-HY 200-R V3, A		
Malaysia - Occupational Exposure Limits		
Local name	Aluminium oksida (α-Alumina) # Aluminium oxide (α-Alumina)	
PEL (OEL TWA)	10 mg/m³ Nilai adalah bagi jirim zarahan yang tidak mengandungi asbestos dan < 1 % silika berhablur. # The value is for particulate matter containing no asbestos and < 1 % crystalline silica.	
MEL (mg/m³)	30 mg/m³	

### Exposure limit values for the other components

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts are not

relevant for this product.

### 8.1.1 Biological monitoring

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.

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### 8.3. Individual protection measures, such as 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. Change contaminated gloves after 30 min. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Туре	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

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

### Personal protective equipment symbol(s):



Density





Environmental exposure controls Consumer exposure controls Not applicable.

Avoid contact during pregnancy/while nursing.

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

Physical state Solid

Appearance Thixotropic paste.

Colour Black
Odour characteristic
Odour threshold Not determined

pHNo data availableMelting pointNo data availableFreezing pointNo data availableBoiling pointNo data available

Flash point > 109 °C DIN EN ISO 1523

Evaporation rate No data available Flammability (solid, gas) Flammable solid. **Explosive limits** No data available No data available Vapour pressure Relative vapour density at 20°C No data available Relative density No data available Solubility Water: Not miscible Partition coefficient n-octanol/water (Log Pow) No data available

Partition coefficient n-octanol/water (Log Pow)
Partition coefficient n-octanol/water (Log Kow)
Auto-ignition temperature
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic
Explosive properties

Water. Not inscible
Water (Log Pow)
No data available
Not self-igniting
No data available
27777.778 mm²/s
50 Pa·s HN-0333
Product is not explosive.

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1.8 g/ml AW 4.3.23



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### SECTION 10: Stability and reactivity

Reactivity No data available

Chemical stability Stable under normal conditions
Possibility of hazardous reactions No additional information available

Conditions to avoid Direct sunlight, Extremely high or low temperatures

Incompatible materials Strong acids, Strong bases

Hazardous decomposition products fume, Carbon monoxide, Carbon dioxide, Under normal conditions of storage and use,

hazardous decomposition products should not be produced

### **SECTION 11: Toxicological information**

11.1	. Inf	ormation	on	toxico	logical	effects
------	-------	----------	----	--------	---------	---------

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

Not classified

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)

	> 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)

### 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg

### 2,2'-(m-tolylimino)diethanol (91-99-6)

LD50 oral rat	300 – 2000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	

Skin corrosion or irritationNot classifiedSerious eye damage or eye irritationNot classifiedRespiratory sensitizationNot classified

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (STOT) – single
exposure

Not classified
Not classified
Not classified

Specific target organ toxicity (STOT) - repeated

exposure

Not classified

Aspiration hazard Not classified

HIT-HY 200-R V3, A

Viscosity, kinematic 27777.778 mm²/s

Potential adverse human health effects and

symptoms

No additional information available.

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### **SECTION 12: Ecological information**

### 12.1. Ecotoxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not classified.

Other information Avoid release to the environment

Other information	Avoid release to the environment.			
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)				
LC50 - Other aquatic organisms [1]	9.79 mg/l			
ErC50 algae	9.79 mg/l			
NOEC (acute)	7.51 mg/l			
NOEC (chronic)	20 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			
2-Propenoic acid, 2-methyl-, monoester with 1,2-p	ropanediol (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)			
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)			
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)			
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			
Partition coefficient n-octanol/water (Log Kow)	2.1			
2,2'-(m-tolylimino)diethanol (91-99-6)				

### 12.2. Persistence and degradability

Partition coefficient n-octanol/water (Log Pow)

HIT-HY 200-R V3, A			
Persistence and degradability	Not established.		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)			
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.		

1.9

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122	Bioaccumu	lativa na	tantial
14.3.	Dioacculliu	ialive bo	tennai

HIT-HY 200-R V3, A				
Bioaccumulative potential	Not established.			
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2	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-pro	ppanediol (27813-02-1)			
BCF - Fish [1]	≤ 100			
BCF - Fish [2]	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)			
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).			
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)				
Partition coefficient n-octanol/water (Log Kow)	2.1			
2,2'-(m-tolylimino)diethanol (91-99-6)				
Partition coefficient n-octanol/water (Log Pow) 1.9				

### 12.4. Mobility in soil

HIT-HY 200-R V3, A				
Mobility in soil	No additional information available			
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2	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)				
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.			
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)				
Partition coefficient n-octanol/water (Log Kow)	2.1			
2,2'-(m-tolylimino)diethanol (91-99-6)				
Partition coefficient n-octanol/water (Log Pow)	1.9			

### 12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

### **SECTION 13: Disposal information**

### 13.1. Disposal methods

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 information Avoid release to the environment.

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### **SECTION 14: Transportation information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID nun	nber		
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping r	name		
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard cla	ss(es)		
Not regulated	Not regulated	Not regulated	Not regulated
4.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
4.5. Environmental hazar	ds		
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information	on available		1

### 14.6. Special precautions for user

### **Overland transport**

Not regulated

### Transport by sea

Not regulated

### Air transport

Not regulated

### Rail transport

Not regulated

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

Not applicable

### **SECTION 15: Regulatory information**

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

Regulation	Component/ Mixture
EHS Notification and Registration Scheme	

### 15.2. International agreements

No additional information available

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

 Version
 1.1

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 29/2/2024

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 29/02/2024

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 13/01/2021

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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

None.

#### Other information

Full text of H-statements	
H317	May cause an allergic skin reaction

SDS\_MY\_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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