

# HIT-HY 200-A

Safety information for 2-Component-products

Issue date: 16/08/2022

Revision date: 16/08/2022

Supersedes: 04/10/2018

Version: 3.3

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

#### **1.1 Product identifier**

Product name



Product code

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

Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101 2090 Midrand - South Africa T +2711 237300 - F +2711 2373111 Customercare.za@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:**

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

#### **Classification according to the United Nations GHS**

Eye Irrit. 2	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 GHS09
Signal word (GHS UN)	Warning
Hazardous ingredients	methacrylates, dibenzoyl peroxide
Hazard statements (GHS UN)	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)	<ul> <li>P280 - Wear eye protection, protective clothing, protective gloves.</li> <li>P262 - Do not get in eyes, on skin, or on clothing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> </ul>



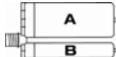
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Safety information for 2-Component-products

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
НІТ-НҮ 200-А, В		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HIT-HY 200-A, A		1	pcs (pieces)	Skin Sens. 1, H317

#### **SECTION 4: General advice**

General advice

For professional users only

SECTION 5: Safe handling advice	Be
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 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
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/



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Safety information for 2-Component-products

First-aid measures general	If skin irritation or rash occurs: Get medical advice/attention. 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	Causes serious eye 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 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 fire	Thermal decomposition generates : Carbon dioxide Carbon monoxide

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

No data available





according to the United Nations GHS (Rev. 9, 2021) Issue date: 16/08/2022 Revision date: 16/08/2022

Supersedes: 04/10/2018

Version: 3.2

SECTION 4. Identification	
SECTION 1: Identification	
1.1. GHS Product identifier	Mixture
Product form Product name	Mixture HIT-HY 200-A, A
Product code	BU Anchor
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemic	
Use of the substance/mixture	Composite mortar component for fasteners in the construction industry
Recommended uses and restrictions	For professional use only
1.4. Supplier's details	
Supplier	Department issuing data specification sheet
Hilti (South Africa) (Pty) Ltd.	Hilti Entwicklungsgesellschaft mbH
2 Tugela Lane, Waterfall Logistics Precinct	Hiltistraße 6
Corner Bridal Veil Road and R101	86916 Kaufering - Deutschland
2090 Midrand - South Africa	T +49 8191 906876
T +2711 237300 - F +2711 2373111	
1.5. Emergency phone number	
Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service
	+41 44 251 51 51 (international)
	+2711 237300
<b>SECTION 2: Hazard identification</b>	
2.1. Classification of the substance of	r mixture
Classification according to the United Nations	
Skin sensitisation, Category 1	H317 Calculation method
Full text of H-statements: see section 16	
2.2. GHS Label elements, including pr	recautionary statements
Labelling according to the United Nations GHS	
Hazard pictograms (GHS UN)	$\wedge$
	i
	GHS07
Signal word (GHS UN)	Warning
Hazardous ingredients	2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol
Hazard statements (GHS UN)	H317 - May cause an allergic skin reaction
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.



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#### 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.
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/eff	ects, acute and delayed
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	May cause severe irritation.

Symptoms/effects after eye contactMay cause severe irritation.Potential adverse human health effects and<br/>symptomsNo additional information available.

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

Treat symptomatically.

SECT	ION 5: Fire-fighting measures	
5.1.	Suitable extinguishing media	
Suitable	extinguishing media	Water spray. Carbon dioxide. Dry powder. Foam. Sand.



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media	Do not use a heavy water stream.
ards arising from the c	chemical
n products in case of	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
ective actions for fire-f	ighters
	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
ing	Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
	n products in case of

SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment 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 auth	norities if liquid enters sewers or public waters.

6.3. Methods and materials for containm	ent 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.

<b>SECTION 7: Handling and storage</b>	e
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, incl	luding 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/personal protection

#### 8.1. Control parameters

Additional information

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



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	relevant for this product.	
8.2. Appropriate engineering	ng controls	
Appropriate engineering controls	Ensure adequate ventilation.	
Environmental exposure controls	Not applicable.	
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)		
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.

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
Skin and body protection	Wear suitable pro	tective clothing	

Skin and body protection

Personal protective equipment symbol(s)



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

No additional information available

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

9.1. Basic physical and chemic	cal 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	240 °C	
Flammability (solid, gas)	Flammable	
Explosive limits	Not applicable	
Lower explosive limit (LEL)	Not applicable	
Upper explosive limit (UEL)	Not applicable	
Flash point	> 109 °C DIN EN ISO 1523	
Auto-ignition temperature	Not self-igniting	
Decomposition temperature	Not available	
pH	Not available	



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pH solution	Not available
Viscosity, kinematic (calculated value) (40 °C)	Not applicable
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	Not available
Vapour pressure at 50 °C	Not available
Density	1,8 g/ml AW 4.3.23
Relative density	Not available
Relative vapour density at 20 °C	Not applicable
Solubility	Water: Not miscible
Viscosity, dynamic	35 – 65 Pa⋅s (HN-0333)
Explosive properties	Product is not explosive
Particle size	Not available
Particle size distribution	Not available
Particle shape	Not available
Particle aspect ratio	Not available
Particle specific surface area	Not available

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

No additional information available

SECTION 10: Stability and reactivity
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#### 10.1. Reactivity

No additional information available

#### 10.2. **Chemical stability**

Stable under normal conditions.

#### Possibility of hazardous reactions 10.3.

No additional information available.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### Hazardous decomposition products 10.6.

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 to:	kicity (oral)	Not classified
Acute to:	kicity (dermal)	Not classified

Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

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-, methyl-, m	onoester with 1,2-propanediol (27813-02-1)	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/	/kg
16/08/2022	EN (English)	8/22



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	bodyweight; Rat; Experimental value)			
LD50 dermal rabbit	≥ 5000 mg/kg bodyweight (Rabbit; Experimental value)			
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)			
LD50 oral rat	25 mg/kg			
LD50 dermal rat	> 2000 mg/kg			
Skin corrosion/irritation	Not classified			
Serious eye damage/irritation	Not classified			
Respiratory or skin sensitisation	May cause an allergic skin reaction.			
Germ cell mutagenicity	Not classified			
Carcinogenicity	Not classified			
Reproductive toxicity	Not classified			
STOT-single exposure	Not classified			
STOT-repeated exposure	Not classified			
Aspiration hazard	Not classified			
Potential adverse human health effects and symptoms	No additional information available.			

#### 12.1. Toxicity

Hazardous to the aquatic environment, short- term (acute)	Not classified
Hazardous to the aquatic environment, long- term (chronic)	Not classified

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (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)		
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		

#### 12.2. Persistence and degradability

HIT-HY 200-A, 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.		



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#### 12.3. Bioaccumulative potential

HIT-HY 200-A, A			
Bioaccumulative potential	Not established.		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	(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		
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).		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)			
Partition coefficient n-octanol/water (Log Pow) 2,1			

#### 12.4. Mobility in soil

HIT-HY 200-A, 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	1,9 (log Koc, Calculated value)			
Coefficient (Log Koc)				
Ecology - soil	Highly mobile in soil.			

12.5. Other adverse effects	. 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	ΙΑΤΑ	RID	
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	



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ADR	IMDG	ΙΑΤΑ	RID
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards	5		
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information ava	ailable		

#### 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 product in question

No additional information available

SECTION 16: Other info	ormation	
Issue date	16/08/2022	
Revision date	16/08/2022	
Supersedes	04/10/2018	

Section	Changed item	Change	Comments
	Legislation	Modified	



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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
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.



# HIT-HY 200-A, B Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Issue date: 16/08/2022 Revision date: 16/08/2022

Supersedes: 04/10/2018

Version: 3.3

SECTION 4. Identification	
SECTION 1: Identification	
1.1. GHS Product identifier	
Product form	Mixture
Product name	HIT-HY 200-A, 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 chemica	al and restrictions on use
Use of the substance/mixture	Composite mortar component for fasteners in the construction industry
Recommended uses and restrictions	For professional use only
1.4. Supplier's details	
1.4. Supplier 5 details	
Supplier	Department issuing data specification sheet
	Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH
Supplier	
Supplier Hilti (South Africa) (Pty) Ltd.	Hilti Entwicklungsgesellschaft mbH
Supplier Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct	Hilti Entwicklungsgesellschaft mbH Hiltistraße 6
<b>Supplier</b> Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101	Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland
Supplier Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101 2090 Midrand - South Africa	Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland
Supplier Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101 2090 Midrand - South Africa T +2711 237300 - F +2711 2373111	Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland
SupplierHilti (South Africa) (Pty) Ltd.2 Tugela Lane, Waterfall Logistics PrecinctCorner Bridal Veil Road and R1012090 Midrand - South AfricaT +2711 237300 - F +2711 2373111 <b>1.5.</b> Emergency phone number	Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland T +49 8191 906876
SupplierHilti (South Africa) (Pty) Ltd.2 Tugela Lane, Waterfall Logistics PrecinctCorner Bridal Veil Road and R1012090 Midrand - South AfricaT +2711 237300 - F +2711 2373111 <b>1.5.</b> Emergency phone number	Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland T +49 8191 906876 Schweizerisches Toxikologisches Informationszentrum – 24h Service

## **SECTION 2: Hazard identification**

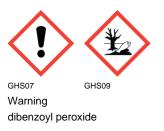
2.1. Classification of the substance or m	ixture			
Classification according to the United Nations GHS				
Serious eye damage/eye irritation, Category 2	H319	Calculation method		
Skin sensitisation, Category 1	H317	Calculation method		
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400	Calculation method		
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410	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)

Signal word (GHS UN) Hazardous ingredients





### Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Hazard statements (GHS UN)	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)	<ul> <li>P280 - Wear eye protection, protective clothing, protective gloves.</li> <li>P262 - Do not get in eyes, on skin, or on clothing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.</li> <li>P337+P313 - If eye irritation persists: Get medical advice, medical attention.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> </ul>

#### 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 - 15	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, a	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

Treat symptomatically.



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SECTION 5: Fire-fighting	measures
5.1. Suitable extinguishing	g 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 arisi	ng from the chemical
Hazardous decomposition products i fire	n case of Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
5.3. Special protective act	ions 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.

SECT	ION 6: Accidental release m	leasures	
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		
Emerge	ncy procedures	Evacuate unnecessary personnel.	
6.1.2.	For emergency responders		
Protecti	ve equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection.	
Emerge	ncy 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.	

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, include	ling 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	



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SECTION 8: Exposure controls/personal protection						
8.1.	Control par	ameters				
Additior	nal information		The product has a relevant for this pr	pasty consistency. Expos oduct.	sure limit values for resp	irable dusts are not
8.2.	Appropriate	e engineering control	S			
Appropriate engineering controls		Ensure adequate	Ensure adequate ventilation.			
Environmental exposure controls		Not applicable.	Not applicable.			
Consumer exposure controls		Avoid contact duri	Avoid contact during pregnancy/while nursing.			
Other information		Do not eat, drink o	Do not eat, drink or smoke during use.			
8.3.	Individual p	rotection measures,	such as personal pro	otective equipment (P	PPE)	
Materia	Is for protective of	clothing	Long sleeved prote	ective clothing		
speaking, it must be		oves. The permeation tim be reduced. Contact with horten the protective func	either mixtures of substa			

Туре	Material	Permeation	Thickness (mm)	Penetration	ı	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12			EN ISO 374
Eye protection	otection Wear security glasses which protect from splashes					
Туре	Field of application Characteristics Standard					

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

Skin and body protection

Wear suitable protective clothing

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.
Odour	characteristic.
Odour threshold	Not determined
Melting point	Not available
Freezing point	Not available
Boiling point	100 °C
Flammability (solid, gas)	Flammable
Explosive limits	Not applicable
Lower explosive limit (LEL)	Not applicable



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Upper explosive limit (UEL)	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not self-igniting
Decomposition temperature	Not available
pH	6 – 7
pH solution	Not available
Viscosity, kinematic (calculated value) (40 °C)	Not applicable
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	23 hPa
Vapour pressure at 50 °C	Not available
Density	1,9 g/cm <sup>3</sup>
Relative density	Not available
Relative vapour density at 20 °C	Not applicable
Solubility	Water: Miscible with water
Viscosity, dynamic	25 – 55 Pa⋅s HN-0333
Explosive properties	Product is not explosive
Particle size	Not available
Particle size distribution	Not available
Particle shape	Not available
Particle aspect ratio	Not available
Particle specific surface area	Not available

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

SADT

65 °C dibenzoyl peroxide

### 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	

Not classified



# HIT-HY 200-A, B Safety Data Sheet

Salety Data Sheet

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Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
	pH: 6 – 7
Serious eye damage/irritation	Causes serious eye irritation.
	pH: 6 – 7
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

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

12.1. Toxicity	
Hazardous to the aquatic environment, short- term (acute)	Very toxic to aquatic life.
Classification procedure (Hazardous to the aquatic environment, short-term (acute))	Calculation method
Hazardous to the aquatic environment, long– term (chronic)	Very toxic to aquatic life with long lasting effects.
Classification procedure (Hazardous to the aquatic environment, long-term (chronic))	Calculation method
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

Persistence and degradability	Not established.
T ersistence 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
ъ ,	environment.

#### 12.3. Bioaccumulative potential

HIT-HY 200-A, 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).



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12.4. Mobility in soil				
HIT-HY 200-A, 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	tion 3,8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Seva			
Coefficient (Log Koc)	Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)			
Ecology - soil	Low potential for mobility in soil.			
12.5. Other adverse effects				
zone Not classified				
ther 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	ΙΑΤΑ	RID
14.1. UN number or ID number	Pr		
UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping nam	ne		
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(	es)		
9	9	9	9
14.4. Packing group			
III		III	III



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ADR	IMDG	ΙΑΤΑ	RID
14.5. Environmental hazards			
Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:
Yes	Yes	Yes	Yes
not restricted according ADR Speci	Marine pollutant: Yes ial Provision SP375, IATA-DGR Spec	 ial Provision A197 and IMDG-Code 2	10.2.7
14.6. Special precautions for			.10.2.7
Overland transport	0361		
Classification code (ADR)	М7		
Special provisions (ADR)	274, 335, 375, 6	01	
Limited quantities (ADR)	5kg		
Packing instructions (ADR)	P002, IBC08, LF	P02. R001	
Mixed packing provisions (ADR)	MP10		
Transport category (ADR)	3		
Orange plates	0.0		
0	90		
	3077		
	3077		
Tunnel restriction code (ADR)	-		
Transport by sea			
Special provisions (IMDG)	274, 335, 966, 9	67, 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, A17	9, A197, A215	
Rail transport			
Special provisions (RID)	274, 335, 375, 6	01	
Limited quantities (RID)	5kg		
Packing instructions (RID)	P002, IBC08, LF	P02, R001	
14.7. Maritime transport in bu	Ik according to IMO instrument	ts	
	•		

Not applicable

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

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

No additional information available



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Issue date Revision date Supersedes Section	16/08/202 16/08/202 04/10/201 Changed item	22		
Supersedes	04/10/201			
·		18		
Section	Changed item			
	Ű	Change	Comments	
	Legislation	Modified		
	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 G		
		ute Toxicity Estimate		
		BCF - Bioconcentration factor		
	CLP - Cla	CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
	DMEL - D	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 - Me			
		Lowest Observed Adverse Effect Lo		
		No-Observed Adverse Effect Conc		
		NOAEL - No-Observed Adverse Effect Level		
		Io-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			
Other information	vPvB - Ve None.	ery Persistent and Very Bioaccumul	lative	

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	

16/08/2022





according to the United Nations GHS (Rev. 9, 2021)

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.