

# Safety Data Sheet

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

Issue date: Revision date: : Version:

### **SECTION 1: Identification**

#### 1.1. GHS Product identifier

Product name HIT-HY 200-R V3
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 Emirates L.L.C. Dubai Investment Park P.O. Box 11051

Dubai - United Arab Emirates

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#### Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland

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## 1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

H410

EN (English)

+41 44 251 51 51 (international)

+971 4 8019694

800-Hilti (44584) (Toll free)

# **SECTION 2: Hazard identification**

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

#### Classification according to the United Nations GHS

Serious eye damage/eye irritation, Category 2A H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Acute H400

Hazard, Category 1

......

Hazardous to the aquatic environment — Chronic

Hazard, Category 1

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Full text of H statements : see section 16

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

## Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)





GHS07

Warning

Signal word (GHS UN)

Hazard statements (GHS UN)

Precautionary 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

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

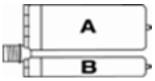
No additional information available

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

## **Substances**

Not applicable

#### **Mixtures**



2-Component-foilpack, contains:

Component A: Urethane methacrylate resin, inorganic filler

Component B: Dibenzoyl peroxide, phlegmatized

Name	Product identifier	%	Classification according to the United Nations GHS
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
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, H31
2,2'-(m-tolylimino)diethanol	(CAS-No.) 91-99-6	0.1 - 1	Flammable liquids Not classified Acute toxicity (oral), Category 3, H301 Acute toxicity (dermal), Category 4, H312 Serious eye damage/eye irritation, Category 2A, H319
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

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			Hazardous to the aquatic environment — Acute Hazard, Category 3, H402 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412
В			
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 2A, 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**

#### 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.

Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency First-aid measures after ingestion 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

symptoms

Based on available data, the classification criteria are not met.

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

No additional information available

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

#### Suitable extinguishing media

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

Unsuitable extinguishing media Do not use a heavy water stream.

### Specific hazards 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.

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Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective

equipment, including respiratory protection.

### **SECTION 6: Accidental release measures**

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

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment 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.

#### 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**

#### 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 Hygiene measures

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

Keep cool. Protect from sunlight. Storage conditions Incompatible products Strong bases. Strong acids. Incompatible materials Sources of ignition. Direct sunlight.

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

#### **Control parameters**

No additional information available

#### Appropriate engineering controls

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.

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN ISO 374

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Eye protection Chemical goggles or safety glasses

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Skin and body protection Wear suitable protective clothing

Respiratory protection Wear appropriate mask

Personal protective equipment symbol(s)







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

No additional information available

Vapour pressure at 50 °C

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

### 9.1. Basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste

Colour component A: black, component B: white.

Odour characteristic. Odour threshold Not available Not available Melting point Freezing point Not available Boiling point Not available Flammability (solid, gas) Non flammable. Explosive limits Not applicable Lower explosive limit (LEL) Not applicable Upper explosive limit (UEL) Not applicable Flash point Not applicable Auto-ignition temperature Not applicable Decomposition temperature Not available рΗ Not available 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

Density Component A: 1.8 g/cm³; component B: 1.9 g/cm³

Not available

Relative density

Relative vapour density at 20 °C

Solubility

Particle size

Particle size distribution

Not available

Not available

Not available

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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)

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 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.

### **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 es	ster (2082-81-7)	
LD50 oral rat	10066 mg/kg	
LD50 dermal rat	> 3000 mg/kg	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg	
	bodyweight; Rat; Experimental value)	
LD50 dermal rabbit	≥ 5000 mg/kg bodyweight (Rabbit; Experimental value)	

Skin corrosion/irritation Not classified

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

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

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Aspiration hazard Not classified

Potential adverse human health effects and

symptoms

Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - water Very toxic to aquatic life. Hazardous to the aquatic environment, short- Very toxic to aquatic life.

term (acute)

Hazardous to the aquatic environment, long-term

(chronic)

Very toxic to aquatic life with long lasting effects.

dibenzoyl peroxide (94-36-0)		
LC50 fish 2	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)	
EC50 Daphnia 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	
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 Daphnia 1	28.8 mg/l	
NOEC (acute)	57.8 mg/l	
2-Propenoic acid, 2-methyl-, 1,4-butanedi	yl 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 w	vith 1,2-propanediol (27813-02-1)	
LC50 fish 1	493 mg/l (48 h; Leuciscus idus; GLP)	
EC50 Daphnia 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 V3		
Persistence and degradability	Not established.	
dibenzoyl peroxide (94-36-0)		
Persistence and degradability	Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment.	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Not rapidly degradable		
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-R V3		
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).	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
BCF fish 1	≈	
Partition coefficient n-octanol/water (Log Pow)	2.1	
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).	

#### 12.4. Mobility in soil

HIT-HY 200-R V3	
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 Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage
	Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.
2-Propenoic acid, 2-methyl-, monoester with 1,2-	-propanediol (27813-02-1)
Partition coefficient n-octanol/water (Log Koc)	1.9 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.

#### 12.5. Other adverse effects

Ozone Not classified

No additional information available Other adverse effects Other information Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### **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 / RID / IMDG / IATA / ADN

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

### 14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Rail transport

Not applicable

## 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**

Other information None.

Full text of H-statements:	
H241	Heating may cause a fire or explosion
H300	Fatal if swallowed
H301	Toxic if swallowed
H312	Harmful in contact with skin

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H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
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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