

# HIT-HY 200-A

## Safety information for 2-Component-products

Date of issue: 04/10/2018

Revision date: 04/10/2018

Supersedes: 30/11/2015

Version: 3.2

### SECTION 1: Kit identification

#### 1.1 Product identifier

Product name HIT-HY 200-A



Product code BU Anchor

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

Hilti (Hong Kong) Ltd.  
701-704, 7/F, Tower A, Manulife Financial Centre  
223 Wai Yip Street, Kwun Tong  
Kowloon - Hong Kong  
T +852 27734 700  
[hksales@hilti.com](mailto:hksales@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 (Rev. 4, 2011)

|                   |      |
|-------------------|------|
| Eye Irrit. 2A     | H319 |
| Skin Sens. 1      | H317 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

#### Label elements

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

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)

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

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

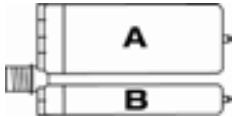
# HIT-HY 200-A

## Safety information for 2-Component-products

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

### Additional information

2-Component-foilpack, contains:  
 Component A: Urethane methacrylate resin, inorganic filler  
 Component B: Dibenzoyl peroxide, phlegmatized



| Name            | General description | Quantity | Unit | Classification according to the United Nations GHS  |
|-----------------|---------------------|----------|------|---|
| HIT-HY 200-A, B |                     | 1        | pcs  | Eye Irrit. 2A, H319<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| HIT-HY 200-A, A |                     | 1        | pcs  | Skin Sens. 1, H317  |

### 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<br>Notify authorities if liquid enters sewers or public waters  |
| Storage conditions            | Keep cool. Protect from sunlight.   |
| Precautions for safe handling | Wear personal protective equipment<br>Avoid contact with skin and eyes<br>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work<br>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<br>Mechanically recover the product<br>Store away from other materials.   |
| For containment               | Collect spillage.   |
| Incompatible materials        | Sources of ignition<br>Direct sunlight  |
| Incompatible products         | Strong bases<br>Strong acids  |

### SECTION 6: First aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures after eye contact  | Rinse immediately with plenty of water<br>Remove contact lenses, if present and easy to do. Continue rinsing.<br>Obtain medical attention if pain, blinking or redness persists |
| First-aid measures after ingestion    | Rinse mouth<br>Drink plenty of water<br>Get medical advice/attention.<br>Do not induce vomiting<br>Obtain emergency medical attention   |
| First-aid measures after inhalation   | Remove person to fresh air and keep comfortable for breathing.<br>Assure fresh air breathing<br>Allow the victim to rest  |
| First-aid measures after skin contact | Wash contaminated clothing before reuse.<br>Wash with plenty of water/...   |

# HIT-HY 200-A

## Safety information for 2-Component-products

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|                                     |   |
|-------------------------------------|---|
| First-aid measures general          | If skin irritation or rash occurs: Get medical advice/attention.<br>Take off immediately all contaminated clothing.<br>Never give anything by mouth to an unconscious person<br>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<br>Exercise caution when fighting any chemical fire<br>Prevent fire fighting water from entering the environment |
| Protection during firefighting                   | Self-contained breathing apparatus<br>Do not enter fire area without proper protective equipment, including respiratory protection                                     |
| Hazardous decomposition products in case of fire | Thermal decomposition generates :<br>Carbon dioxide<br>Carbon monoxide   |

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

No data available

# HIT-HY 200-A, A

## Safety Data Sheet

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

Date of issue: 04/10/2018

Version: 3.1

Revision date: 30/11/2015

Supersedes: 24/03/2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

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

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

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

#### 1.3. Details of the supplier of the safety data sheet

**Supplier**

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

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[anchor.hse@hilti.com](mailto:anchor.hse@hilti.com)

#### 1.4. Emergency telephone number

|                  |   |
|------------------|---|
| Emergency number | Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700 |
|------------------|---|

### SECTION 2: Hazards identification

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

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

|              |      |
|--------------|------|
| Skin Sens. 1 | H317 |
|--------------|------|

Full text of H statements : see section 16

#### 2.2. Label elements

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

Hazard pictograms (GHS-UN)



GHS07

Signal word (GHS-UN)  
Hazard statements (GHS-UN)  
Precautionary statements (GHS-UN)

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.  
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

No additional information available

# HIT-HY 200-A, A

## Safety Data Sheet

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

### 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<br>Skin sensitisation, category 1B, H317<br>Hazardous to the aquatic environment —<br>Acute Hazard, Category 3, H402  |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol | (CAS-No.) 27813-02-1 | 5 - 10  | Flammable liquids Not classified<br>Acute toxicity (oral) Not classified<br>Serious eye damage/eye irritation,<br>Category 2A, H319<br>Skin sensitisation, Category 1, H317<br>Hazardous to the aquatic environment -<br>Acute Hazard Not classified         |
| 1,1'-(p-tolylimino)dipropan-2-ol                            | (CAS-No.) 38668-48-3 | 0.1 - 1 | Acute toxicity (oral), Category 2, H300<br>Serious eye damage/eye irritation,<br>Category 2A, H319<br>Hazardous to the aquatic environment —<br>Acute Hazard, Category 3, H402<br>Hazardous to the aquatic environment —<br>Chronic Hazard, Category 3, H412 |

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of 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. Assure fresh air breathing. 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. Drink plenty of water. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.   |

#### 4.2. Most important symptoms and effects, both 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. |

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

Unsuitable extinguishing media Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

General measures Spilled material may present a slipping hazard.

#### 6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

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

Emergency procedures Ventilate area.

### 6.2. Environmental precautions

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

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

For containment Collect spillage.

Methods for cleaning up This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials.

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Storage conditions Keep cool. Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 - 25 °C

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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## Safety Data Sheet

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

### Additional information

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

### 8.2. 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. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

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

**Eye protection**  
Wear security glasses which protect from splashes

| Type           | Use     | Characteristics | Standard       |
|----------------|---------|-----------------|----------------|
| Safety glasses | Droplet | clear           | EN 166, EN 170 |

**Skin and body protection**  
Wear suitable protective clothing



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

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                          |
|--|--------------------------|
| Physical state                             | Solid                    |
| Appearance                                 | Thixotropic paste.       |
| Colour                                     | Light grey.              |
| Odour                                      | characteristic.          |
| Odour threshold                            | Not determined           |
| pH   | No data available        |
| Relative evaporation rate (butylacetate=1) | No data available        |
| Melting point                              | No data available        |
| Freezing point                             | No data available        |
| Boiling point                              | 240 °C                   |
| Flash point                                | > 109 °C DIN EN ISO 1523 |
| Auto-ignition temperature                  | Not self-igniting        |
| Decomposition temperature                  | No data available        |
| Flammability (solid, gas)                  | Non flammable.           |

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

|                                  |                           |
|----------------------------------|---------------------------|
| Vapour pressure                  | No data available         |
| Relative vapour density at 20 °C | No data available         |
| Relative density                 | No data available         |
| Density                          | 1.8 g/ml AW 4.3.23        |
| Solubility                       | Water: Not miscible       |
| Log Pow                          | No data available         |
| Viscosity, kinematic             | No data available         |
| Viscosity, dynamic               | 35 - 65 Pa.s (HN-0333)    |
| Explosive properties             | Product is not explosive. |
| Oxidising properties             | No data available         |
| Explosive limits                 | No data available         |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                             |                |
|-----------------------------|----------------|
| Acute toxicity (oral)       | Not classified |
| Acute toxicity (dermal)     | Not classified |
| Acute toxicity (inhalation) | Not classified |

| <b>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b>                            |   |
|---|---|
| LD50 oral rat   | 25 mg/kg  |
| LD50 dermal rat   | > 2000 mg/kg  |
| <b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b>            |   |
| LD50 oral rat   | 10066 mg/kg   |
| LD50 dermal rat   | > 3000 mg/kg  |
| <b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b> |   |
| LD50 oral rat   | > 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value) |



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## Safety Data Sheet

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

|                                   |   |
|-----------------------------------|---|
| LD50 dermal rabbit                | >= 5000 mg/kg bodyweight (Rabbit; Experimental value) |
| Skin corrosion/irritation         | Not classified  |
| Serious eye damage/irritation     | Not classified  |
| Respiratory or skin sensitisation | May cause an allergic skin reaction.                  |
| Germ cell mutagenicity            | 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

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

## SECTION 12: Ecological information

### 12.1. Toxicity

|                          |                |
|--------------------------|----------------|
| Acute aquatic toxicity   | Not classified |
| Chronic aquatic toxicity | Not classified |

|  |           |
|--|-----------|
| <b>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b> |           |
| 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 |

|  |           |
|--|-----------|
| <b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b> |           |
| LC50 fish 1  | 32.5 mg/l |
| LC50 other aquatic organisms 1                                       | 9.79 mg/l |
| NOEC (acute)   | 7.51 mg/l |
| NOEC (chronic)   | 20 mg/l   |

|   |  |
|---|--|
| <b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b> |  |
| LC50 fish 1   | 493 mg/l (48 h; Leuciscus idus; GLP)                     |
| EC50 Daphnia 1  | > 143 mg/l (48 h; Daphnia magna; 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

|                               |                  |
|-------------------------------|------------------|
| <b>HIT-HY 200-A, A</b>        |                  |
| Persistence and degradability | Not established. |

|  |      |
|--|------|
| <b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b> |      |
| Biodegradation   | 84 % |

|   |                                 |
|---|---------------------------------|
| <b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b> |                                 |
| Persistence and degradability   | Readily biodegradable in water. |

### 12.3. Bioaccumulative potential

|                           |                  |
|---------------------------|------------------|
| <b>HIT-HY 200-A, A</b>    |                  |
| Bioaccumulative potential | Not established. |

|  |     |
|--|-----|
| <b>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b> |     |
| BCF fish 1   | ≈   |
| Log Kow  | 2.1 |

|  |     |
|--|-----|
| <b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b> |     |
| Log Pow  | 3.1 |

|   |   |
|---|---|
| <b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b> |   |
| BCF fish 1  | <= 100  |
| BCF fish 2  | 3.2 Quantitative structure-activity relationship (QSAR) |
| Log Pow   | 0.97 (OECD 102 method)                                  |

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## Safety Data Sheet

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

|                           |  |
|---------------------------|--|
| Bioaccumulative potential | Low bioaccumulation potential (BCF < 500). |
|---------------------------|--|

### 12.4. Mobility in soil

|   |                                       |
|---|---------------------------------------|
| <b>1,1'-(p-tolylimino)dipropen-2-ol (38668-48-3)</b>                            |                                       |
| Log Kow   | See section 12.1 on ecotoxicology     |
| <b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b>            |                                       |
| Log Pow   | See section 12.1 on ecotoxicology     |
| <b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b> |                                       |
| Log Pow   | See section 12.1 on ecotoxicology     |
| Ecology - soil  | Low potential for adsorption in soil. |

### 12.5. Other adverse effects

|                       |                                     |
|-----------------------|-------------------------------------|
| Ozone                 | Not classified                      |
| Other adverse effects | No additional information available |
| Other information     | Avoid release to the environment.   |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment 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

| ADR                                     | IMDG          | IATA          | RID           |
|---|---------------|---------------|---------------|
| <b>14.1. UN number</b>                  |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>    |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |

### 14.6. Special precautions for user

- Overland transport

- Transport by sea

No data available

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## Safety Data Sheet

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

### - Air transport

No data available

### - Rail transport

Carriage prohibited (RID) No

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No additional information available

## SECTION 16: Other information

Date of issue 04/10/2018

Revision date 30/11/2015

Supersedes 24/03/2015

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. 4, 2011)

Date of issue: 04/10/2018

Version: 3.2

Revision date: 04/10/2018

Supersedes: 30/11/2015

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

|              |                 |
|--------------|-----------------|
| Product form | Mixture         |
| Product name | HIT-HY 200-A, B |
| Product code | BU Anchor       |

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

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

#### 1.3. Details of the supplier of the safety data sheet

##### Supplier

Hilti (Hong Kong) Ltd.  
701-704, 7/F, Tower A, Manulife Financial Centre  
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##### Department issuing data specification sheet

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#### 1.4. Emergency telephone number

|                  |   |
|------------------|---|
| Emergency number | Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700 |
|------------------|---|

### SECTION 2: Hazards identification

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

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

|  |      |
|--|------|
| Eye Irrit. 2A                              | H319 |
| Skin Sens. 1                               | H317 |
| Aquatic Acute 1                            | H400 |
| Aquatic Chronic 1                          | H410 |
| Full text of H statements : see section 16 |      |

#### 2.2. Label elements

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

Hazard pictograms (GHS-UN)



GHS07

GHS09

Signal word (GHS-UN)

Warning

Hazardous ingredients

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)

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.

# HIT-HY 200-A, B

## Safety Data Sheet

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

### 2.3. Other hazards

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<br>Serious eye damage/eye irritation, Category 2A, H319<br>Skin sensitisation, Category 1, H317<br>Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 (M=10)<br>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 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. Assure fresh air breathing. 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. Drink plenty of water. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.   |

### 4.2. Most important symptoms and effects, both 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. |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | Water spray. Carbon dioxide. Dry powder. Foam. Sand. |
| Unsuitable extinguishing media | Do not use a heavy water stream.                     |

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## Safety Data Sheet

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

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.                                   |

## SECTION 6: Accidental release measures

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

|   |   |
|---|---|
| General measures                          | Spilled material may present a slipping hazard.   |
| <b>6.1.1. For non-emergency personnel</b> |   |
| Emergency procedures                      | Evacuate unnecessary personnel.   |
| <b>6.1.2. For emergency responders</b>    |   |
| 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 material for containment and cleaning up

|                         |   |
|-------------------------|---|
| For containment         | Collect spillage.   |
| Methods for cleaning up | This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. Store away from other materials. |
| Other information       | Dispose of materials or solid residues at an authorized site.   |

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |  |
|-------------------------------|--|
| Precautions for safe handling | Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. |
| Hygiene measures              | Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.  |

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

|                           |  |
|---------------------------|--|
| Storage conditions        | Keep cool. Protect from sunlight.        |
| Incompatible products     | Strong bases. Strong acids.              |
| Incompatible materials    | Sources of ignition. Direct sunlight.    |
| Storage temperature       | 5 - 25 °C                                |
| Heat and ignition sources | Keep away from heat and direct sunlight. |

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

### Additional information

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

### 8.2. 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. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration.

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

**Eye protection**  
Wear security glasses which protect from splashes

| Type           | Use     | Characteristics | Standard       |
|----------------|---------|-----------------|----------------|
| Safety glasses | Droplet | clear           | EN 166, EN 170 |

**Skin and body protection**  
Wear suitable protective clothing



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

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                    |
|--|--------------------|
| Physical state                             | Solid              |
| Appearance                                 | Thixotropic paste. |
| Colour                                     | white.             |
| Odour                                      | characteristic.    |
| Odour threshold                            | Not determined     |
| pH   | 6 - 7              |
| Relative evaporation rate (butylacetate=1) | No data available  |
| Melting point                              | No data available  |
| Freezing point                             | No data available  |
| Boiling point                              | 100 °C             |
| Flash point                                | No data available  |
| Auto-ignition temperature                  | Not self-igniting  |
| Decomposition temperature                  | No data available  |
| Flammability (solid, gas)                  | Non flammable.     |
| Vapour pressure                            | 23 hPa             |

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|                                  |                            |
|----------------------------------|----------------------------|
| Relative vapour density at 20 °C | No data available          |
| Relative density                 | No data available          |
| Density                          | 1.9 g/cm <sup>3</sup>      |
| Solubility                       | Water: Miscible with water |
| Log Pow                          | No data available          |
| Viscosity, kinematic             | No data available          |
| Viscosity, dynamic               | 25 - 55 Pa.s HN-0333       |
| Explosive properties             | Product is not explosive.  |
| Oxidising properties             | No data available          |
| Explosive limits                 | No data available          |

### 9.2. Other information

|      |                          |
|------|--------------------------|
| 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                              |
| Acute toxicity (dermal)           | Not classified                              |
| Acute toxicity (inhalation)       | Not classified                              |
| Skin corrosion/irritation         | Not classified<br>pH: 6 - 7                 |
| Serious eye damage/irritation     | Causes serious eye irritation.<br>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                              |



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|   |   |
|---|---|
| STOT-repeated exposure                              | Not classified  |
| 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

|   |   |
|---|---|
| Acute aquatic toxicity                              | Very toxic to aquatic life.                           |
| Classification procedure (Acute aquatic toxicity)   | Calculation method                                    |
| Chronic aquatic toxicity                            | Very toxic to aquatic life with long lasting effects. |
| Classification procedure (Chronic aquatic toxicity) | Calculation method                                    |

| dibenzoyl peroxide (94-36-0) |  |
|------------------------------|--|
| EC50 Daphnia 1               | 0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value) |
| LC50 fish 2                  | 0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)   |
| NOEC (acute)                 | 0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)   |
| NOEC chronic fish            | < 0.001  |

#### 12.2. Persistence and degradability

| HIT-HY 200-A, 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-A, B           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

| dibenzoyl peroxide (94-36-0) |  |
|------------------------------|--|
| Log Pow                      | 3.71   |
| Bioaccumulative potential    | Low bioaccumulation potential (Log Kow < 4). |

#### 12.4. Mobility in soil

| dibenzoyl peroxide (94-36-0) |                                   |
|------------------------------|-----------------------------------|
| Log Pow                      | See section 12.1 on ecotoxicology |
| Log Koc                      | See section 12.1 on ecotoxicology |
| Ecology - soil               | Adsorbs into the soil.            |

#### 12.5. Other adverse effects

|                       |                                     |
|-----------------------|-------------------------------------|
| Ozone                 | Not classified                      |
| Other adverse effects | No additional information available |
| Other information     | Avoid release to the environment.   |

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                              |  |
|------------------------------|--|
| Regional legislation (waste) | Disposal must be done according to official regulations. |
|------------------------------|--|

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**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

| ADR   | IMDG          | IATA          | RID           |
|---|---------------|---------------|---------------|
| <b>14.1. UN number</b>  |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated |
| <b>14.2. UN proper shipping name</b>  |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b>   |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>  |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>  |               |               |               |
| Not regulated   | Not regulated | Not regulated | Not regulated |
| Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg) |               |               |               |
| not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7          |               |               |               |

### 14.6. Special precautions for user

#### - Overland transport

Special provisions (ADR) 375

#### - Transport by sea

No data available

#### - Air transport

Special provisions (IATA) A197

#### - Rail transport

Carriage prohibited (RID) No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No additional information available

### SECTION 16: Other information

SDS Major/Minor None  
Date of issue 04/10/2018

# HIT-HY 200-A, B

## Safety Data Sheet

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

Revision date 04/10/2018

Supersedes 30/11/2015

Indication of changes:

| Section | Changed item                           | Change   | Comments |
|---------|--|----------|----------|
| 2.1     | Classification (GHS-UN)                | Added    |          |
| 2.2     | Hazard statements (GHS-UN)             | Modified |          |
| 3       | Composition/information on ingredients | Added    |          |

Other information None.

Full text of H-statements:

|      |   |
|------|---|
| H241 | Heating may cause a fire or explosion.                |
| H317 | May cause an allergic skin reaction.                  |
| H319 | Causes serious eye irritation.                        |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

SDS\_UN\_Hilti

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