

## HIT-HY 200-R V3

Safety information for 2-Component-products

Issue date: 03/03/2022

Revision date: 03/03/2022

## **SECTION 1: Kit identification**

#### **1.1 Product identifier**

Product name



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 <u>hksales@hilti.com</u>

### **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<br>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.<br>H319 - Causes serious eye irritation.<br>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> |



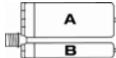
## HIT-HY 200-R V3

Safety information for 2-Component-products

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

### Additional information

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



| Name               | General description | Quantity | Unit         | Classification according to the United Nations GHS   |
|--------------------|---------------------|----------|--------------|--|
| HIT-HY 200-R V3, B |                     | 1        | pcs (pieces) | Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| HIT-HY 200-R V3, A |                     | 1        | pcs (pieces) | Skin Sens. 1, H317   |

## **SECTION 4: General advice**

General advice

For professional users only

| SECTION 5: Safe handling advice | ce   |
|---------------------------------|--|
| 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<br>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>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>Allow affected person to breathe fresh air<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-R V3

Safety information for 2-Component-products

|                                     | If skin irritation or rash occurs: Get medical advice/attention.  |
|-------------------------------------|---|
| First-aid measures general          | 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  | May cause severe irritation   |
| Symptoms/effects after skin contact | May cause an allergic skin reaction.  |
| Other medical advice or treatment   | Treat symptomatically   |

| <b>SECTION 7: Fire fighting measures</b>         |  |
|--|--|
| 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



## Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011) Issue date: 03/03/2022 Revision date: 03/03/2022

Version: 1.0

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| 1.1. GHS Product identifier         Product rame       Mixture         Product rame       HIT-HY 200-R V3, A         Product code       BU Anchor         1.2. Other means of identification       No additional information available         1.3. Recommended use of the chemical and restrictions on use       Composite mortar component for fasteners in the construction industry         Recommended use       For professional use only       Itel substance/mixture         Supplier's details       Composite mortar component for fasteners in the construction industry         Recommended use       For professional use only         1.4. Supplier's details       Department issuing data specification sheet         Hill (Flong Kong) Ltd.       Hill: Entwicklungsgesellschaft mbH         701-704, 7/F, Tower A, Manulite Financial Centre       88916 Kaufering - Deutschiand         232 Wa Yip Street, Kwun Tong       88916 Kaufering - Deutschiand         Kowioon - Hong Kong       T +49 8191 906876         T +852 27734 700       Schweizerisches Toxikologisches Informationszentrum - 24h Service         +41 44 251 51 51 (Internationai)       +852 27734 700         Skin sensitisation, Category 1       H37         Calculation method       Fill levt of H-statements: see section 16         2.2. GHS Label elements, including precautionary statements       Selfor      <   | Product form       Mixture         Product name       HIT-HY 200-R V3, A         Product code       BU Anchor         1.2. Other means of identification       BU Anchor         No additional information available       Composite mortar component for fasteners in the construction industry         Recommended use       Composite mortar component for fasteners in the construction industry         Recommended use       For professional use only         1.4. Supplier's details       Department issuing data specification sheet         Hilti (Hong Kong) Ltd.       Hilti Entwicklungsgesellschaft mbH         701-704, 7/F, Tower A, Manulife Financial Centre       Hiltistraße 6         223 Wai Yip Street, Kwun Tong       86916 Kaufering - Deutschland         Kowloon - Hong Kong       T +49 8191 906876         T +852 27734 700       Schweizerisches Toxikologisches Informationszentrum – 24h Service         +41 44 251 51 51 (international)       +852 27734 700   |
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| Hilti (Hong Kong) Ltd. Hilti Entwicklungsgesellschaft mbH<br>701-704, 7/F, Tower A, Manulife Financial Centre<br>223 Wai Yip Street, Kwun Tong 86916 Kaufering - Deutschland<br>Kowloon - Hong Kong T +49 8191 906876<br>T +852 27734 700<br><b>1.5. Emergency phone number</b><br>Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700<br><b>SECTION 2: Hazard identification</b><br><b>Section according to the Substance or mixture</b><br><b>Classification according to the United Nations GHS</b><br>Skin sensitisation, Category 1 H317 Calculation method<br>Full text of H-statements; including precautionary statements<br><b>Labelling according to the United Nations GHS</b><br>Hazard pictograms (GHS UN)<br>Hazard pictograms (GHS UN)<br>Hazard statements (GHS UN)<br>HA | Hilti (Hong Kong) Ltd. Hilti Entwicklungsgesellschaft mbH<br>701-704, 7/F, Tower A, Manulife Financial Centre Hiltistraße 6<br>223 Wai Yip Street, Kwun Tong 86916 Kaufering - Deutschland<br>Kowloon - Hong Kong T +49 8191 906876<br>T +852 27734 700<br><b>1.5. Emergency phone number</b><br>Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700  |
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| 701-704, 7/F, Tower A, Manulife Financial Centre       Hiltistraße 6         223 Wai Yip Street, Kwun Tong       88916 Kaufering - Deutschland         Kowloon - Hong Kong       T +49 8191 906876         1.5. Emergency phone number       Energency phone number         Emergency number       Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +852 27734 700         SECTION 2: Hazard identification       Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +852 27734 700         SECTION 2: Hazard identification       Kaiterian         21. Classification of the substance or mixture       Calculation method         Skin sensitisation, Category 1       H317         Full text of H-statements; including precautionary statements       Labelling according to the United Nations GHS         Hazard pictograms (GHS UN)       GH507         Signal word (GHS UN)       Warning         Hazard statements (GHS UN)       H317 - May cause an allergic skin reaction         Precautionary statements (GHS UN)       H317 - May cause an allergic skin reaction         Precautionary statements (GHS UN)       H317 - May cause an allergic skin reaction   | 701-704, 7/F, Tower A, Manulife Financial CentreHiltistraße 6223 Wai Yip Street, Kwun Tong86916 Kaufering - DeutschlandKowloon - Hong KongT +49 8191 906876T +852 27734 700TSchweizerisches Toxikologisches Informationszentrum – 24h Service+41 44 251 51 51 (international)+852 27734 700  |
| 223 Wai Yip Street, Kwun Tong 86916 Kaufering - Deutschland<br>T +49 8191 906876<br>T +49 27734 700<br><b>1.5. Emergency phone number</b><br>Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700<br><b>SECTION 2: Hazard identification</b><br><b>SECTION 2: Hazard bitons GHS</b><br><b>Signal word</b> (GHS UN)<br>Hazard pictograms (GHS UN)<br>Hazard statements (GHS UN)<br>Hazard state  | 223 Wai Yip Street, Kwun Tong       86916 Kaufering - Deutschland         Kowloon - Hong Kong       T +49 8191 906876         T +852 27734 700       T <b>1.5. Emergency phone number</b> Schweizerisches Toxikologisches Informationszentrum – 24h Service         Emergency number       Schweizerisches Toxikologisches Informationszentrum – 24h Service         +41 44 251 51 51 (international)       +852 27734 700   |
| Kowloon - Hong Kong<br>T +852 27734 700       T +49 8191 906876 <b>1.5. Emergency phone number</b> Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700 <b>SECTION 2: Hazard identification</b> Status <b>SECTION 2: Hazard identification</b> International) <b>SECTION 2: Hazard identification</b> H317 <b>Calculation method</b> International)         Full text of H-statements: see section 16       International <b>2.2. GHS Label elements, including precautionary statements</b> International         Labelling according to the United Nations GHS       International         Hazard pictograms (GHS UN)       GHS07         Signal word (GHS UN)       GHS07         Hazard statements (GHS UN)       H317 May cause an allergic skin reaction         Hecautionary statements (GHS UN) <td< td=""><td>Kowloon - Hong Kong       T +49 8191 906876         T +852 27734 700       T         <b>1.5. Emergency phone number</b>       Schweizerisches Toxikologisches Informationszentrum – 24h Service         Emergency number       Schweizerisches Toxikologisches Informationszentrum – 24h Service         +41 44 251 51 51 (international)       +852 27734 700</td></td<>   | Kowloon - Hong Kong       T +49 8191 906876         T +852 27734 700       T <b>1.5. Emergency phone number</b> Schweizerisches Toxikologisches Informationszentrum – 24h Service         Emergency number       Schweizerisches Toxikologisches Informationszentrum – 24h Service         +41 44 251 51 51 (international)       +852 27734 700   |
| T +852 27734 700 <b>1.5. Emergency phone number</b> Emergency number       Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700 <b>SECTION 2: Hazard identification 21. Classification of the substance or mixture Classification according to the United Nations GHS</b> Skin sensitisation, Category 1       H317         Full text of H-statements: see section 16 <b>2.2. GHS Label elements, including precautionary statements Labelling according to the United Nations GHS</b> Hazard pictograms (GHS UN)         Hazard ous ingredients         2.Propencic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propencic acid, 2-methyl-, monoeste with 1,2-propanedicol         Hazard statements (GHS UN)       H317 May cause an allergic skin reaction         Precautionary statements (GHS UN)       P280 · Wear reye protection, protective clothing, protective gloves.  | T +852 27734 700<br><b>1.5. Emergency phone number</b><br>Emergency number<br>Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700  |
| Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700<br>SECTION 2: Hazard identification<br>2.1. Classification of the substance or mixture<br>Classification according to the United Nations GHS<br>Skin sensitisation, Category 1 H317 Calculation method<br>Full text of H-statements: see section 16<br>2.2. GHS Label elements, including precautionary statements<br>Labelling according to the United Nations GHS<br>Hazard pictograms (GHS UN)<br>Hazardous ingredients - 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoester<br>with 1,2-propanediol<br>Hazard statements (GHS UN)<br>Hazard                        | Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700   |
| Emergency number       Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+852 27734 700         SECTION 2: Hazard identification         2.1. Classification of the substance or mixture         Classification according to the United Nations GHS         Skin sensitisation, Category 1       H317         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)         Warning         2-Propencic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propencic acid, 2-methyl-, monoester with 1,2-propanediol         Hazard statements (GHS UN)       H317 - May cause an allergic skin reaction         Precautionary statements (GHS UN)       P380 - Wear eye protection, protective clothing, protective gloves.   | Emergency number<br>+41 44 251 51 51 (international)<br>+852 27734 700   |
| +41 44 251 51 51 (international)         +41 44 251 51 51 (international)         +852 27734 700         SECTION 2: Hazard identification         2.1. Classification of the substance or mixture         Classification according to the United Nations GHS         Skin sensitisation, Category 1       H317       Calculation method         Full text of H-statements: see section 16       2.2. GHS Label elements, including precautionary statements         Labelling according to the United Nations GHS       Hazard pictograms (GHS UN)         Hazard pictograms (GHS UN)       Warning         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)       P320 - Wear eve protection, protective clothing, protective gloves.   | +41 44 251 51 51 (international)<br>+852 27734 700   |
| +852 27734 700  SECTION 2: Hazard identification  Classification of the substance or mixture  Classification according to the United Nations GHS Skin sensitisation, Category 1 H317 Calculation method Full text of H-statements: see section 16  2.2. GHS Label elements, including precautionary statements Labelling according to the United Nations GHS Hazard pictograms (GHS UN)  Signal word (GHS UN) Hazardous ingredients 2.Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoeste with 1,2-propanediol Hazard statements (GHS UN) H317 - May cause an allergic skin reaction Precautionary statements (GHS UN) Precautionary stat   | +852 27734 700   |
| SECTION 2: Hazard identification         2.1. Classification of the substance or mixture         Classification according to the United Nations GHS         Skin sensitisation, Category 1         H317         Calculation method         Full text of H-statements: see section 16         2.2. GHS Label elements, including precautionary statements         Labelling according to the United Nations GHS         Hazard pictograms (GHS UN)         Warning         Signal word (GHS UN)         Hazard batements (GHS UN)         H317         Calculation method         Warning         2Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol         H317 - May cause an allergic skin reaction         P280 - Wear eye protection, protective clothing, protective gloves.  |  |
| Classification according to the United Nations GHS         Skin sensitisation, Category 1       H317         Full text of H-statements: see section 16         2.2. GHS Label elements, including precautionary statements         Labelling according to the United Nations GHS         Hazard pictograms (GHS UN)         Signal word (GHS UN)         Hazardous ingredients         Hazard statements (GHS UN)         Hazard statements (GHS UN)         Precautionary statements (GHS UN)         Page - Wear eye protection, protective clothing, protective gloves.   | 2.1 Classification of the substance or mixture   |
| Skin sensitisation, Category 1       H317       Calculation method         Full text of H-statements: see section 16       Eabelling according to the United Nations GHS         Labelling according to the United Nations GHS       Full text of H-statements: See Section 16         Signal word (GHS UN)       GHS07         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.   |  |
| Full text of H-statements: see section 16         2.2. GHS Label elements, including precautionary statements         Labelling according to the United Nations GHS         Hazard pictograms (GHS UN)         Signal word (GHS UN)         Hazardous ingredients         Hazard statements (GHS UN)         Hazard statements (GHS UN)         Precautionary statements (GHS UN)  | -  |
| Labelling according to the United Nations GHS         Hazard pictograms (GHS UN)         Signal word (GHS UN)         Hazardous ingredients         Hazard statements (GHS UN)         Precautionary statements (GHS UN)         Precautionary statements (GHS UN)   |  |
| Labelling according to the United Nations GHS         Hazard pictograms (GHS UN)         Signal word (GHS UN)         Hazardous ingredients         Hazard statements (GHS UN)         Hazard statements (GHS UN)         Precautionary statements (GHS UN)         Precautionary statements (GHS UN)  |  |
| Hazard pictograms (GHS UN)       Image: 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.  |  |
| GHS07         Signal word (GHS UN)         Hazardous ingredients         Hazard statements (GHS UN)         Hazard statements (GHS UN)         Precautionary statements (GHS UN)         P280 - Wear eye protection, protective clothing, protective gloves.   |  |
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| Precautionary statements (GHS UN) P280 - Wear eye protection, protective clothing, protective gloves.  | Hazard pictograms (GHS UN)       Image: Comparison of the second se |
| Precautionary statements (GHS UN) P280 - Wear eye protection, protective clothing, protective gloves.  | Hazard pictograms (GHS UN)       Image: GHS 07         Signal word (GHS UN)       Warning         Hazardous ingredients       2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoes with 1,2-propanediol  |
| P262 - Do not get in eves on skin, or on clothing  | Hazard pictograms (GHS UN)       Image: Constraint of the second se |
| P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remov  | Hazard pictograms (GHS UN)       Image: GHS07         Signal word (GHS UN)       Warning         Hazardous ingredients       2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoes 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.   |
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|  | Hazard pictograms (GHS UN)<br>GHS07<br>GHS07<br>Signal word (GHS UN)<br>Warning<br>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoes<br>with 1,2-propanediol<br>Hazard statements (GHS UN)          H317 - May cause an allergic skin reaction<br>P280 - Wear eye protection, protective clothing, protective gloves.<br>P262 - Do not get in eyes, on skin, or on clothing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remo-<br>contact lenses, if present and easy to do. Continue rinsing.   |
| contact lenses, it present and easy to do. Continue rinsing.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.<br>P337+P313 - If eye irritation persists: Get medical advice, medical attention.  | Hazard pictograms (GHS UN)<br>GHS07<br>GHS07<br>Signal word (GHS UN)<br>Hazardous ingredients<br>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoes<br>with 1,2-propanediol<br>Hazard statements (GHS UN)<br>Precautionary statements (GHS UN)<br>Precautionary statements (GHS UN)<br>Precautionary statements (GHS UN)<br>Precautionary statements (GHS UN)<br>Paga - Wear eye protection, protective clothing, protective gloves.<br>P262 - Do not get in eyes, on skin, or on clothing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remote contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.  |
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| P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.  | Hazard pictograms (GHS UN)<br>GHS07<br>GHS07<br>Signal word (GHS UN)<br>Hazardous ingredients<br>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, 2-Propenoic acid, 2-methyl-, monoes<br>with 1,2-propanediol<br>Hazard statements (GHS UN)<br>Precautionary statements (GHS UN)<br>Precautionary statements (GHS UN)<br>P280 - Wear eye protection, protective clothing, protective gloves.<br>P262 - Do not get in eyes, on skin, or on clothing.<br>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remo-<br>contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention.  |
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## Safety Data Sheet

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

### 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<br>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   |
| 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<br>environment — Acute Hazard,<br>Category 3, H402<br>Hazardous to the aquatic<br>environment — Chronic Hazard,<br>Category 3, H412 |
| 1,1'-(p-tolylimino)dipropan-2-ol                            | (CAS-No.) 38668-48-3 | 0.1 – 1 | Acute toxicity (oral), Category 2,<br>H300<br>Serious eye damage/eye irritation,<br>Category 2A, H319<br>Hazardous to the aquatic<br>environment — Acute Hazard,<br>Category 3, H402<br>Hazardous to the aquatic<br>environment — Chronic Hazard,<br>Category 3, H412   |
| 2,2'-(m-tolylimino)diethanol                                | (CAS-No.) 91-99-6    | 0.1 – 1 | Flammable liquids Not classified<br>Acute toxicity (oral), Category 4,<br>H302<br>Acute toxicity (dermal), Category 4,<br>H312<br>Serious eye damage/eye irritation,<br>Category 2A, H319   |

Full text of H-statements: see section 16

| SECTION 4: First-aid measures                       |   |
|---|---|
| 4.1. Description of necessary first-aid me          | asures  |
| First-aid measures general                          | Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation                 | Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.  |
| 4.2. Most important symptoms/effects, ac            | cute 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 | No additional information available.  |

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

Treat symptomatically.



## Safety Data Sheet

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

| SECT            | ION 5: Fire-fighting measures         |   |
|-----------------|---------------------------------------|---|
| 5.1.            | Suitable extinguishing media          |   |
| Suitable        | e extinguishing media                 | Water spray. Carbon dioxide. Dry powder. Foam. Sand.  |
| Unsuita         | ble extinguishing media               | Do not use a heavy water stream.  |
| 5.2.            | Specific hazards arising from the c   | hemical   |
| Hazardo<br>fire | ous decomposition products in case of | Thermal decomposition generates : Carbon dioxide. Carbon monoxide.  |
| 5.3.            | Special protective actions for fire-f | ighters   |
| Firefigh        | ting 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. |
| Protecti        | on 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, prote  | Personal precautions, protective equipment and emergency procedures                       |  |  |
| General measures  | Spilled material may present a slipping hazard.   |  |  |
| 6.1.1. For non-emergency personnel  |   |  |  |
| Emergency procedures  | Evacuate unnecessary personnel.   |  |  |
| 6.1.2. For emergency responders   |   |  |  |
| Protective equipment  | Use personal protective equipment as required. Equip cleanup crew with proper protection. |  |  |
| Emergency procedures  | Ventilate area.   |  |  |
| 6.2. Environmental precautions  |   |  |  |
| Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. |   |  |  |
| 6.3. Methods and materials for o  | 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, includ | 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  |



## Safety Data Sheet

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| 8.1.   | Control paran        | neters              |   |  |                             |                     |
|--|----------------------|---------------------|---|--|-----------------------------|---------------------|
| Additio  | nal information      |                     | The product has a relevant for this pro | pasty consistency. Expo<br>oduct.  | sure limit values for respi | rable dusts are not |
| 8.2.   | Appropriate e        | engineering control | S                                       |  |                             |                     |
| Approp   | riate engineering co | ontrols             | Ensure good venti                       | lation of the work station.  |                             |                     |
| Environmental exposure controls  |                      | Not applicable.     | Not applicable.                         |  |                             |                     |
| Consur   | mer exposure contro  | ols                 | Avoid contact duri                      | ng pregnancy/while nursi   | ng.                         |                     |
| Other i  | nformation           |                     | Do not eat, drink o                     | or smoke during use.   |                             |                     |
| 8.3. Individual protection measures, such as personal protective equipment (PPE) |                      |                     |   |  |                             |                     |
| Hand p   | protection           |                     | speaking, it must b                     | oves. The permeation tim<br>be reduced. Contact with<br>horten the protective func | either mixtures of substa   |                     |
| Type   |                      | laterial            | Permeation                              | Thickness (mm)   | Penetration                 | Standard            |

| Туре              | Material  | Permeation        | Thickness (mm)  | Penetration | า        | 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 ap                                       | plication         | 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 propert | ies               |
|--|-------------------|
| Physical state                           | Solid             |
| Appearance                               | Thixotropic paste |
| Colour                                   | Black.            |
| Odour                                    | characteristic.   |
| Odour threshold                          | Not determined    |
| Melting point                            | Not available     |
| Freezing point                           | Not available     |
| Boiling point                            | Not available     |
| Flammability (solid, gas)                | Flammable solid.  |
| Explosive limits                         | Not applicable    |
| Lower explosive limit (LEL)              | Not applicable    |
| Upper explosive limit (UEL)              | Not applicable    |
|  |                   |

-



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| Fleeh point                                     | > 109 °C DIN EN ISO 1523 |
|---|--------------------------|
| Flash point                                     |                          |
| Auto-ignition temperature                       | Not self-igniting        |
| Decomposition temperature                       | Not available            |
| рН  | Not available            |
| pH solution                                     | Not available            |
| Viscosity, kinematic (calculated value) (40 °C) | 27777.778 mm²/s          |
| 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                              | 50 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)

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 |  |



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| 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 e       | ster (2082-81-7)   |  |
| LD50 oral rat                                       | 10066 mg/kg  |  |
| LD50 dermal rat                                     | > 3000 mg/kg   |  |
| 2,2'-(m-tolylimino)diethanol (91-99-6)              |  |  |
| LD50 oral rat                                       | 300 – 2000 mg/kg   |  |
| LD50 dermal rat                                     | > 2000 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<br>bodyweight; Rat; Experimental value) |  |
| LD50 dermal rabbit                                  | ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value)   |  |
| Skin corrosion/irritation                           | Not classified   |  |
| Serious eye damage/irritation                       | Not classified   |  |
| Respiratory or skin sensitisation                   | May cause an allergic skin reaction.   |  |
| Germ cell mutagenicity                              | Not classified   |  |
| Carcinogenicity                                     | Not classified   |  |
| Reproductive toxicity                               | Not classified   |  |
| STOT-single exposure                                | Not classified   |  |
| STOT-repeated exposure                              | Not classified   |  |
| Aspiration hazard                                   | Not classified   |  |
| HIT-HY 200-R V3, A                                  |  |  |
| Viscosity, kinematic                                | 27777.778 mm <sup>2</sup> /s   |  |
| Potential adverse human health effects and symptoms | No additional information available.   |  |

## **SECTION 12: Ecological information**

| 12.1. Toxicity   |   |
|--|---|
| Hazardous to the aquatic environment, short-term (acute)                 | Not classified  |
| Hazardous to the aquatic environment, long-term (chronic)                | Not classified  |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)                            |   |
| LC50 - Fish [1]  | ≈ 17 mg/l   |
| LC50 - Other aquatic organisms [1]                                       | 245 mg/l  |
| EC50 - Crustacea [1]   | 28.8 mg/l   |
| NOEC (acute)   | 57.8 mg/l   |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester                        | r (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)                                  |



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| 12.2. Persistence and degradability                                      |                                 |  |
|--|---------------------------------|--|
| HIT-HY 200-R V3, A   |                                 |  |
| Persistence and degradability  | Not established.                |  |
|  |                                 |  |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester                        | (2082-81-7)                     |  |
| Not rapidly degradable   |                                 |  |
| Biodegradation   | 84 %                            |  |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-                         | propanediol (27813-02-1)        |  |
| Not rapidly degradable   |                                 |  |
| Persistence and degradability  | Readily biodegradable in water. |  |
| 12.3. Bioaccumulative potential  |                                 |  |
| HIT-HY 200-R V3, A   |                                 |  |
| Bioaccumulative potential  | Not established.                |  |
|  |                                 |  |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)                            |                                 |  |
| Partition coefficient n-octanol/water (Log Pow)                          | 2.1                             |  |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)            |                                 |  |
| Partition coefficient n-octanol/water (Log Kow)                          | 3.1                             |  |
| 2,2'-(m-tolylimino)diethanol (91-99-6)                                   |                                 |  |
| Partition coefficient n-octanol/water (Log Kow)                          | 1.9                             |  |
| 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, A                              |  |  |  |
|---|--|--|--|
| Mobility in soil                                | No additional information available                                      |  |  |
|   |  |  |  |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2 | 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                     |  |  |  |
| 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<br>emptied cartridges must be disposed of as special waste in accordance with official<br>regulations. Packaging contaminated by the product : Dispose in a safe manner in<br>accordance with local/national regulations. |  |
| Ecology - waste materials                  | Avoid release to the environment.  |  |



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## **SECTION 14: Transport information**

#### In accordance with ADR / IMDG / IATA / RID

| DR                                | IMDG                        | ΙΑΤΑ                        | RID                         |
|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|
| 14.1. UN number or ID number      |                             |                             |                             |
| Not regulated                     | Not regulated               | Not regulated               | Not regulated               |
| 14.2. UN proper shipping n        | ame                         |                             |                             |
| Not regulated                     | Not regulated               | Not regulated               | Not regulated               |
| 14.3. Transport hazard class(es)  |                             |                             |                             |
|                                   |                             |                             |                             |
| Not regulated                     | Not regulated               | Not regulated               | Not regulated               |
|                                   | Not regulated               | Not regulated               | Not regulated               |
| Not regulated                     | Not regulated Not regulated | Not regulated Not regulated | Not regulated Not regulated |
| Not regulated 14.4. Packing group | Not regulated               |                             |                             |

#### 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 infor | mation     |  |
|-------------------------|------------|--|
| SDS Major/Minor         | None       |  |
| Issue date              | 03/03/2022 |  |
| Revision date           | 03/03/2022 |  |
|                         |            |  |



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| Abbreviations and acronyms | ADN - European Agreement concerning the International Carriage of Dangerous Goods by<br>Inland Waterways  |
|----------------------------|---|
|                            | ADR - European Agreement concerning the International Carriage of Dangerous Goods by<br>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   |
| ther information           | None.   |
|                            |   |

| Full text of H-statements: |   |
|----------------------------|---|
| H300                       | Fatal if swallowed                                |
| H302                       | Harmful if swallowed                              |
| H312                       | Harmful in contact with skin                      |
| 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.



## Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011) Issue date: 03/03/2022 Revision date: 03/03/2022

Version: 1.0

:

| SECTION 1: Identification                        |   |
|--|---|
| SECTION 1. Identification                        |   |
| 1.1. GHS Product identifier                      |   |
| Product form                                     | Mixture   |
| Product name                                     | HIT-HY 200-R V3, B  |
| UN-No. (ADR)                                     | 3077  |
| Product code                                     | BU Anchor   |
| 1.2. Other means of identification               |   |
| No additional information available              |   |
| 1.3. Recommended use of the chemical             | and restrictions on use   |
| Use of the substance/mixture                     | Composite mortar component for fasteners in the construction industry |
| Recommended use                                  | For professional use only   |
| 1.4. Supplier's details                          |   |
| Supplier   | Department issuing data specification sheet                           |
| Hilti (Hong Kong) Ltd.                           | Hilti Entwicklungsgesellschaft mbH                                    |
| 701-704, 7/F, Tower A, Manulife Financial Centre | Hiltistraße 6   |
| 223 Wai Yip Street, Kwun Tong                    | 86916 Kaufering - Deutschland   |
| Kowloon - Hong Kong                              | T +49 8191 906876   |
| T +852 27734 700                                 |   |
| 1.5. Emergency phone number                      |   |
| Emergency number                                 | Schweizerisches Toxikologisches Informationszentrum – 24h Service     |
|  | +41 44 251 51 51 (international)                                      |
|  | +852 27734 700  |

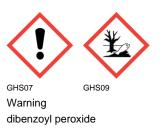
## **SECTION 2: Hazard identification**

| 2.1. Classification of the substance or mixture                      |      |                    |  |  |
|--|------|--------------------|--|--|
| Classification according to the United Nations GH                    | 3    |                    |  |  |
| Serious eye damage/eye irritation, Category 2                        | H319 | Calculation method |  |  |
| Skin sensitisation, Category 1                                       | H317 | Calculation method |  |  |
| Hazardous to the aquatic environment — Acute<br>Hazard, Category 1   | H400 | Calculation method |  |  |
| Hazardous to the aquatic environment — Chronic<br>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





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| Hazard statements (GHS UN)        | H317 - May cause an allergic skin reaction<br>H319 - Causes serious eye irritation<br>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<br>United Nations GHS  |
|--------------------|--------------------|---------|--|
| dibenzoyl peroxide | (CAS-No.) 94-36-0  | 10 – 25 | Organic Peroxides, Type B, H241<br>Serious eye damage/eye irritation,<br>Category 2A, H319<br>Skin sensitisation, Category 1, H317<br>Hazardous to the aquatic<br>environment — Acute Hazard,<br>Category 1, H400 (M=10)<br>Hazardous to the aquatic<br>environment — Chronic Hazard,<br>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). Remove person to fresh air and keep comfortable for breathing. Allow affected person to First-aid measures after inhalation 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 | No additional information available. |
| symptoms                                   |                                      |

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

Treat symptomatically.



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| SECTION 5: Fire-fighting measures                 |                                   |   |  |
|---|-----------------------------------|---|--|
| 5.1. Suit   | able extinguishing media          |   |  |
| Suitable exting                                   | uishing media                     | Water spray. Carbon dioxide. Dry powder. Foam. Sand.  |  |
| Unsuitable exti                                   | nguishing media                   | Do not use a heavy water stream.  |  |
| 5.2. Spe  | cific hazards arising from the ch | emical  |  |
| Hazardous dec<br>fire                             | composition products in case of   | Thermal decomposition generates : Carbon dioxide. Carbon monoxide.  |  |
| 5.3. Special protective actions for fire-fighters |                                   |   |  |
| Firefighting ins                                  | tructions                         | 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 duri                                   | ng firefighting                   | Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.                                   |  |

| SECTION 6: Accidental release measures |  |   |  |  |  |
|--|--|---|--|--|--|
| 6.1. Po                                | 6.1. Personal precautions, protective equipment and emergency procedures |   |  |  |  |
| General mea                            | General measures Spilled material may present a slipping hazard.         |   |  |  |  |
| 6.1.1. Fo                              | or non-emergency personnel   |   |  |  |  |
| Emergency                              | procedures   | Evacuate unnecessary personnel.   |  |  |  |
| 6.1.2. Fo                              | or emergency responders  |   |  |  |  |
| Protective e                           | quipment   | Use personal protective equipment as required. Equip cleanup crew with proper protection. |  |  |  |
| Emergency                              | procedures   | Ventilate area.   |  |  |  |
| 6.2. E                                 | nvironmental precautions   |   |  |  |  |
| Prevent entr                           | y to sewers and public waters. Notify a                                  | uthorities if liquid enters sewers or public waters.                                      |  |  |  |
| 6.3. M                                 | ethods and materials for contain   | ment and cleaning up  |  |  |  |
| For containn                           | nent   | 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 | ding 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 parameters                          |   |  |  |
| 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            |   |  |  |
| Appropriate engineering controls                 | Ensure good ventilation of the work station.  |  |  |
| Environmental exposure controls                  | No specific measures are required provided the product is handled in accordance with the<br>general rules of occupational hygiene and safety. |  |  |
| Consumer exposure controls                       | Avoid contact during pregnancy/while nursing.   |  |  |
| Other information                                | Do not eat, drink or smoke during use.  |  |  |

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

Hand protection

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

| Туре  | Material             | Permeation                | Thickness (mm) | Penetration | Standard   |
|---|----------------------|---------------------------|----------------|-------------|------------|
| Disposable gloves   | Nitrile rubber (NBR) | 6 (> 480 minutes)         | 0,12           |             | EN ISO 374 |
| Eye protection         Wear security glasses which protect from |                      | sses which protect from s | plashes        |             |            |
|   |                      |                           |                |             |            |

| 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 physic         | 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             | Not available                          |  |
| Flammability (solid, gas) | Flammable solid.                       |  |
| Explosive limits          | Not applicable                         |  |
| Lower explosive limit (LE | .) Not applicable                      |  |
| Upper explosive limit (UE | L) Not applicable                      |  |



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| Flash point                                     | Not applicable           |
|---|--------------------------|
| Auto-ignition temperature                       | Not self-igniting        |
| Decomposition temperature                       | Not available            |
| pH  | Not available            |
| pH solution                                     | Not available            |
| Viscosity, kinematic (calculated value) (40 °C) | 21052.632 mm²/s          |
| Partition coefficient n-octanol/water (Log Kow) | Not available            |
| Vapour pressure                                 | Not available            |
| Vapour pressure at 50 °C                        | Not available            |
| Density   | 1.9 g/ml AW 4.3.23       |
| Relative density                                | Not available            |
| Relative vapour density at 20 °C                | Not applicable           |
| Solubility                                      | Water: Not miscible      |
| Viscosity, dynamic                              | 40 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

## 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 |  |



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| 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                     | Not classified                       |
| Carcinogenicity                            | Not classified                       |
| Reproductive toxicity                      | Not classified                       |
| STOT-single exposure                       | Not classified                       |
| STOT-repeated exposure                     | Not classified                       |
| Aspiration hazard                          | Not classified                       |
| HIT-HY 200-R V3, B                         |                                      |
| Viscosity, kinematic                       | 21052.632 mm²/s                      |
| Potential adverse human health effects and | No additional information available  |

Potential adverse human health effects and symptoms

No additional information available.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

| Hazardous to the aquatic environment, short-<br>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

| tablished.  |
|---|
|   |
|   |
|   |
|   |
| y biodegradable in water. Not established. May cause long-term adverse effects in the |
| nment.  |
| •   |

| HIT-HY 200-R V3, 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-R V3, 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 | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage |  |
| 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          |  |  |
| 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<br>emptied cartridges must be disposed of as special waste in accordance with official<br>regulations. Packaging contaminated by the product : Dispose in a safe manner in<br>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 nan  | ne  |   |  |
| ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>SOLID, N.O.S. (dibenzoyl<br>peroxide)                      | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>SOLID, N.O.S. (dibenzoyl<br>peroxide)                                      | Environmentally hazardous<br>substance, solid, n.o.s. (dibenzoyl<br>peroxide)                 | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>SOLID, N.O.S. (dibenzoyl<br>peroxide)                 |
| Transport document description  |   |   |  |
| UN 3077 ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>SOLID, N.O.S. (dibenzoyl<br>peroxide), 9, III, (-) | UN 3077 ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>SOLID, N.O.S. (dibenzoyl<br>peroxide), 9, III, MARINE<br>POLLUTANT | UN 3077 Environmentally<br>hazardous substance, solid,<br>n.o.s. (dibenzoyl peroxide), 9, III | UN 3077 ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>SOLID, N.O.S. (dibenzoyl<br>peroxide), 9, III |
| 14.3. Transport hazard class(   | es)   |   |  |
| 9   | 9   | 9   | 9  |
|   |   |   |  |
| 14.4. Packing group   |   |   |  |
| III   | 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<br>Marine pollutant: Yes       | Yes                                | Yes                            |
| not restricted according ADR Spec | ial Provision SP375, IATA-DGR Spec | ial Provision A197 and IMDG-Code 2 | .10.2.7                        |
| 14.6. Special precautions for     | user                               |                                    |                                |
| Overland transport                |                                    |                                    |                                |
| Classification code (ADR)         | M7                                 |                                    |                                |
| Special provisions (ADR)          | 274, 335, 375, 6                   | 601                                |                                |
| Limited quantities (ADR)          | 5kg                                |                                    |                                |
| Packing instructions (ADR)        | P002, IBC08, LF                    | P02, R001                          |                                |
| Mixed packing provisions (ADR)    | MP10                               |                                    |                                |
| Transport category (ADR)          | 3                                  |                                    |                                |
| Orange plates                     | 90                                 |                                    |                                |
|                                   | 3077                               |                                    |                                |
| Tunnel restriction code (ADR)     | -                                  |                                    |                                |
| Transport by sea                  |                                    |                                    |                                |
| Special provisions (IMDG)         | 274, 335, 966, 9                   | 067, 969                           |                                |
| Limited quantities (IMDG)         | 5 kg                               |                                    |                                |
| Packing instructions (IMDG)       | LP02, P002                         |                                    |                                |
| EmS-No. (Fire)                    | F-A                                |                                    |                                |
| EmS-No. (Spillage)                | S-F                                |                                    |                                |
| Stowage category (IMDG)           | А                                  |                                    |                                |
| 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                   | 601                                |                                |
| Limited quantities (RID)          | 5kg                                | -                                  |                                |
| Packing instructions (RID)        | P002, IBC08, LF                    | P02, R001                          |                                |
|                                   | Ik according to IMO instrumen      | <b>1</b> -                         |                                |

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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| SECTION 16: Other informat | lion  |
|----------------------------|---|
| SDS Major/Minor            | None  |
| Issue date                 | 03/03/2022  |
| Revision date              | 03/03/2022  |
| 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<br>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.   |
|                            |   |

#### Other information

| 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.