

# HVU2 M8 - M30

## Safety Data Sheet

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

Issue date: 10/01/2022

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Supersedes: 15/01/2019

Version: 1.3

### SECTION 1: Identification

#### 1.1. GHS Product identifier

|              |               |
|--------------|---------------|
| Product form | Mixture       |
| Generic name | HVU2 M8 - M30 |
| 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 | Adhesive anchor capsule for anchor fastening in concrete |
| Recommended use              | For professional use only                                |

#### 1.4. Supplier's details

| Supplier                             | Department issuing data specification sheet |
|--------------------------------------|---------------------------------------------|
| Hilti Emirates L.L.C.                | Hilti Entwicklungsgesellschaft mbH          |
| Dubai Investment Park                | Hiltistraße 6                               |
| P.O. Box 11051                       | 86916 Kaufering - Deutschland               |
| Dubai - United Arab Emirates         | T +49 8191 906876                           |
| T +971 800 44584 - F +971 4 885 4405 |                                             |

#### 1.5. Emergency phone number

|                  |                                                                                                                                                          |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency number | Schweizerisches Toxikologisches Informationszentrum – 24h Service<br>+41 44 251 51 51 (international)<br>+971 4 8019694<br>800-Hilti (44584) (Toll free) |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|

### 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 |
| Reproductive toxicity, Category 1B                                | H360 | Calculation method |
| Hazardous to the aquatic environment — Acute Hazard, Category 2   | H401 | Calculation method |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 | 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)



GHS07

GHS08

GHS09

Signal word (GHS UN)

Danger

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|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazardous ingredients             | dibenzoyl peroxide, dicyclohexyl phthalate, 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol, 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester                                                                                                                                                                                                                                                                                                                                                       |
| Hazard statements (GHS UN)        | H317 - May cause an allergic skin reaction<br>H360 - May damage the unborn child.<br>H411 - Toxic to aquatic life with long lasting effects                                                                                                                                                                                                                                                                                                                                                                      |
| Precautionary statements (GHS UN) | 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. Remove contact lenses, if 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.<br>P302+P352 - IF ON SKIN: Wash with plenty of water. |

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

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                                        | Product identifier   | %           | Classification according to the United Nations GHS                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------|----------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol | (CAS-No.) 27813-02-1 | 4 - < 8     | Flammable liquids Not classified<br>Acute toxicity (oral) Not classified<br>Serious eye damage/eye irritation, Category 2A, H319<br>Skin sensitisation, Category 1, H317<br>Hazardous to the aquatic environment — Acute Hazard, Category 3, H402<br>Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412 |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester           | (CAS-No.) 2082-81-7  | 2.5 – 5     | Acute toxicity (oral) Not classified<br>Skin sensitisation, category 1B, H317                                                                                                                                                                                                                                                |
| dibenzoyl peroxide                                          | (CAS-No.) 94-36-0    | 0.5 - < 1.5 | 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)                            |
| dicyclohexyl phthalate                                      | (CAS-No.) 84-61-7    | 1 – 2.5     | Acute toxicity (oral) Not classified<br>Acute toxicity (dermal) Not classified<br>Skin sensitisation, Category 1, H317<br>Reproductive toxicity, Category 1B, H360<br>Hazardous to the aquatic environment - Acute Hazard Not classified<br>Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412          |
| 1,1'-(p-tolylimino)dipropan-2-ol                            | (CAS-No.) 38668-48-3 | < 0.5       | Acute toxicity (oral), Category 2, H300<br>Serious eye damage/eye irritation, Category 2A, H319<br>Hazardous to the aquatic environment — Acute Hazard, Category 3, H402<br>Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412                                                                          |

Full text of H-statements: see section 16

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### SECTION 4: First-aid measures

#### 4.1. Description of necessary first-aid measures

|                                       |                                                                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation   | Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.                                            |
| First-aid measures after skin contact | Wash contaminated clothing before reuse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention.                                        |
| First-aid measures after eye contact  | Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.     |
| First-aid measures after ingestion    | Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.                                                                          |

#### 4.2. Most important symptoms/effects, acute and delayed

|                                                     |                                      |
|-----------------------------------------------------|--------------------------------------|
| Symptoms/effects after skin contact                 | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact                  | May cause severe irritation.         |
| Potential adverse human health effects and symptoms | No additional information available. |

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

No additional information available

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

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

#### 5.2. Specific hazards arising from the chemical

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

#### 5.3. Special protective actions for fire-fighters

|                                |                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| 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 materials for containment and cleaning up

|                 |                   |
|-----------------|-------------------|
| For containment | Collect spillage. |
|-----------------|-------------------|

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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. Expiry date: See date printed on box and capsule. Do not use if expiry date has been exceeded!.

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                -20 – 25 °C

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls      Ensure adequate ventilation.

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 ISO 374 |

Eye protection                      Wear security glasses which protect from splashes

| Type           | 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

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### SECTION 9: Physical and chemical properties

#### 9.1. Basic physical and chemical properties

|                                                 |                                                    |
|-------------------------------------------------|----------------------------------------------------|
| Physical state                                  | Solid                                              |
| Appearance                                      | Pasty, foil capsule                                |
| Colour                                          | resin: yellowish liquid<br>hardener: white powder. |
| Odour                                           | characteristic.                                    |
| Odour threshold                                 | Not available                                      |
| Melting point                                   | Not available                                      |
| Freezing point                                  | Not available                                      |
| Boiling point                                   | Not available                                      |
| Flammability (solid, gas)                       | Not available                                      |
| Explosive limits                                | Not applicable                                     |
| Lower explosive limit (LEL)                     | Not applicable                                     |
| Upper explosive limit (UEL)                     | Not applicable                                     |
| Flash point                                     | > 101 °C (DIN EN ISO 1523)                         |
| Auto-ignition temperature                       | Not applicable                                     |
| Decomposition temperature                       | Not available                                      |
| pH                                              | Not available                                      |
| pH solution                                     | Not available                                      |
| Viscosity, kinematic (calculated value) (40 °C) | 20 mm <sup>2</sup> /s (ISO 2431)                   |
| Partition coefficient n-octanol/water (Log Kow) | Not available                                      |
| Vapour pressure                                 | 0.1 hPa                                            |
| Vapour pressure at 50 °C                        | Not available                                      |
| Density                                         | 2.95 g/cm <sup>3</sup>                             |
| Relative density                                | Not available                                      |
| Relative vapour density at 20 °C                | Not applicable                                     |
| Solubility                                      | insoluble in water.                                |
| 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 | 55 °C (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.

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### 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>dicyclohexyl phthalate (84-61-7)</b>                                         |                                                                                                                       |
| LD50 oral rat                                                                   | 41400 mg/kg (Rat)                                                                                                     |
| LD50 dermal rabbit                                                              | > 7940 mg/kg (Rabbit)                                                                                                 |
| <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) |
| LD50 dermal rabbit                                                              | ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value)                                                                  |
| <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>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b>                            |                                                                                                                       |
| LD50 oral rat                                                                   | 25 mg/kg                                                                                                              |
| LD50 dermal rat                                                                 | > 2000 mg/kg                                                                                                          |
| Skin corrosion/irritation                                                       | Not classified                                                                                                        |
| Serious eye damage/irritation                                                   | Not classified                                                                                                        |
| Respiratory or skin sensitisation                                               | May cause an allergic skin reaction.                                                                                  |
| Germ cell mutagenicity                                                          | Not classified                                                                                                        |
| Carcinogenicity                                                                 | Not classified                                                                                                        |
| Reproductive toxicity                                                           | May damage the unborn child.                                                                                          |
| STOT-single exposure                                                            | Not classified                                                                                                        |
| STOT-repeated exposure                                                          | Not classified                                                                                                        |
| Aspiration hazard                                                               | Not classified                                                                                                        |

|                      |                                  |
|----------------------|----------------------------------|
| <b>HVU2 M8 - M30</b> |                                  |
| Viscosity, kinematic | 20 mm <sup>2</sup> /s (ISO 2431) |

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)                            | Toxic to aquatic life.                           |
| Classification procedure (Hazardous to the aquatic environment, short-term (acute)) | Calculation method                               |
| Hazardous to the aquatic environment, long-term (chronic)                           | Toxic to aquatic life with long lasting effects. |

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Classification procedure (Hazardous to the aquatic environment, long-term (chronic))      Calculation method

|                                                                                 |                                                                                                                                                  |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>dibenzoyl peroxide (94-36-0)</b>                                             |                                                                                                                                                  |
| 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                                                                                                                                       |
| <b>dicyclohexyl phthalate (84-61-7)</b>                                         |                                                                                                                                                  |
| LC50 - Fish [1]                                                                 | > 10000 mg/l (96 h; Brachydanio rerio; Static system)                                                                                            |
| LC50 - Other aquatic organisms [1]                                              | 1.04 mg/l                                                                                                                                        |
| NOEC (acute)                                                                    | > 2 mg/l                                                                                                                                         |
| NOEC chronic crustacea                                                          | 0.181 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 - 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)                                                                                         |
| <b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b>            |                                                                                                                                                  |
| LC50 - Other aquatic organisms [1]                                              | 9.79 mg/l                                                                                                                                        |
| NOEC (acute)                                                                    | 7.51 mg/l                                                                                                                                        |
| NOEC (chronic)                                                                  | 20 mg/l                                                                                                                                          |
| <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 - Crustacea [1]                                                            | 28.8 mg/l                                                                                                                                        |
| NOEC (acute)                                                                    | 57.8 mg/l                                                                                                                                        |

### 12.2. Persistence and degradability

|                                                                                 |                                                                                                          |
|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>HVU2 M8 - M30</b>                                                            |                                                                                                          |
| Persistence and degradability                                                   | No additional information available                                                                      |
| <b>dibenzoyl peroxide (94-36-0)</b>                                             |                                                                                                          |
| Persistence and degradability                                                   | Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment. |
| <b>dicyclohexyl phthalate (84-61-7)</b>                                         |                                                                                                          |
| Persistence and degradability                                                   | Readily biodegradable in water. Forming sediments in water.                                              |
| ThOD                                                                            | 2.376 g O <sub>2</sub> /g substance                                                                      |
| <b>2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)</b> |                                                                                                          |
| Not rapidly degradable                                                          |                                                                                                          |
| Persistence and degradability                                                   | Readily biodegradable in water.                                                                          |
| <b>2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)</b>            |                                                                                                          |
| Not rapidly degradable                                                          |                                                                                                          |
| Biodegradation                                                                  | 84 %                                                                                                     |

### 12.3. Bioaccumulative potential

|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| <b>HVU2 M8 - M30</b>                            |                                              |
| Bioaccumulative potential                       | No additional information available          |
| <b>dibenzoyl peroxide (94-36-0)</b>             |                                              |
| Partition coefficient n-octanol/water (Log Kow) | 3.71                                         |
| Bioaccumulative potential                       | Low bioaccumulation potential (Log Kow < 4). |

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|                                                                          |                                                         |
|--------------------------------------------------------------------------|---------------------------------------------------------|
| dicyclohexyl phthalate (84-61-7)                                         |                                                         |
| BCF - Fish [1]                                                           | 640 (Pisces)                                            |
| Partition coefficient n-octanol/water (Log Kow)                          | 3 – 6.2                                                 |
| Bioaccumulative potential                                                | High potential for bioaccumulation (Log Kow > 5).       |
| 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).              |
| 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)            |                                                         |
| Partition coefficient n-octanol/water (Log Kow)                          | 3.1                                                     |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)                            |                                                         |
| Partition coefficient n-octanol/water (Log Pow)                          | 2.1                                                     |

### 12.4. Mobility in soil

|                                                                          |                                                                                                                                                                              |
|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| HVU2 M8 - M30                                                            |                                                                                                                                                                              |
| Mobility in soil                                                         | No additional information available                                                                                                                                          |
| dibenzoyl peroxide (94-36-0)                                             |                                                                                                                                                                              |
| Surface tension                                                          | No data available (test not performed)                                                                                                                                       |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc)               | 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil                                                           | Low potential for mobility in soil.                                                                                                                                          |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) |                                                                                                                                                                              |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc)               | 1.9 (log Koc, Calculated value)                                                                                                                                              |
| Ecology - soil                                                           | Highly mobile in soil.                                                                                                                                                       |

### 12.5. Other adverse effects

|                       |                                     |
|-----------------------|-------------------------------------|
| Ozone                 | Not classified                      |
| Other adverse effects | No additional information available |

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

|                                            |                                                                                                                                                                                                                                                                                                              |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional legislation (waste)               | Disposal must be done according to official regulations.                                                                                                                                                                                                                                                     |
| Product/Packaging disposal recommendations | After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations. |
| Ecology - waste materials                  | Avoid release to the environment.                                                                                                                                                                                                                                                                            |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR                                 | IMDG    | IATA    | RID     |
|-------------------------------------|---------|---------|---------|
| <b>14.1. UN number or ID number</b> |         |         |         |
| UN 3077                             | UN 3077 | UN 3077 | UN 3077 |



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| ADR                                                                                                          | IMDG                                                                                      | IATA                                                                                    | RID                                                                                     |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>14.2. UN proper shipping name</b>                                                                         |                                                                                           |                                                                                         |                                                                                         |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)                                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)                   | Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)                 |
| Transport document description                                                                               |                                                                                           |                                                                                         |                                                                                         |
| UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, (-)                 | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) POLLUTANT | UN 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide), 9, III | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III |
| <b>14.3. Transport hazard class(es)</b>                                                                      |                                                                                           |                                                                                         |                                                                                         |
| 9                                                                                                            | 9                                                                                         | 9                                                                                       | 9                                                                                       |
|                                                                                                              |                                                                                           |                                                                                         |                                                                                         |
| <b>14.4. Packing group</b>                                                                                   |                                                                                           |                                                                                         |                                                                                         |
| III                                                                                                          | III                                                                                       | III                                                                                     | III                                                                                     |
| <b>14.5. Environmental hazards</b>                                                                           |                                                                                           |                                                                                         |                                                                                         |
| Dangerous for the environment: Yes                                                                           | Dangerous for the environment: Yes<br>Marine pollutant: Yes                               | Dangerous for the environment: Yes                                                      | Dangerous for the environment: Yes                                                      |
| 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

|                                |                         |
|--------------------------------|-------------------------|
| Classification code (ADR)      | M7                      |
| Special provisions (ADR)       | 274, 335, 375, 601      |
| Limited quantities (ADR)       | 5kg                     |
| Packing instructions (ADR)     | P002, IBC08, LP02, R001 |
| Mixed packing provisions (ADR) | MP10                    |
| Transport category (ADR)       | 3                       |
| Orange plates                  |                         |

Tunnel restriction code (ADR) -

#### Transport by sea

|                             |                         |
|-----------------------------|-------------------------|
| Special provisions (IMDG)   | 274, 335, 966, 967, 969 |
| Limited quantities (IMDG)   | 5 kg                    |
| Packing instructions (IMDG) | LP02, P002              |
| EmS-No. (Fire)              | F-A                     |
| EmS-No. (Spillage)          | S-F                     |
| Stowage category (IMDG)     | A                       |
| Stowage and handling (IMDG) | SW23                    |

#### Air transport

|                                 |       |
|---------------------------------|-------|
| PCA packing instructions (IATA) | 956   |
| PCA max net quantity (IATA)     | 400kg |

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|                                 |                             |
|---------------------------------|-----------------------------|
| CAO packing instructions (IATA) | 956                         |
| Special provisions (IATA)       | A97, A158, A179, A197, A215 |

### Rail transport

|                            |                         |
|----------------------------|-------------------------|
| Special provisions (RID)   | 274, 335, 375, 601      |
| Limited quantities (RID)   | 5kg                     |
| Packing instructions (RID) | P002, IBC08, LP02, R001 |

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

Not applicable

## SECTION 15: Regulatory information

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

No additional information available

## SECTION 16: Other information

|               |            |
|---------------|------------|
| Issue date    | 10/01/2022 |
| Revision date | 10/01/2022 |
| Supersedes    | 15/01/2019 |

| Section | Changed item                           | Change   | Comments |
|---------|----------------------------------------|----------|----------|
| 3       | Composition/information on ingredients | Modified |          |
| 14      | Transport information                  | Added    |          |

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### Abbreviations and acronyms

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE - Acute Toxicity Estimate  
 BCF - Bioconcentration factor  
 CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
 DMEL - Derived Minimal Effect level  
 DNEL - Derived-No Effect Level  
 EC50 - Median effective concentration  
 IARC - International Agency for Research on Cancer  
 IATA - International Air Transport Association  
 IMDG - International Maritime Dangerous Goods  
 LC50 - Median lethal concentration  
 LD50 - Median lethal dose  
 LOAEL - Lowest Observed Adverse Effect Level  
 NOAEC - No-Observed Adverse Effect Concentration  
 NOAEL - No-Observed Adverse Effect Level  
 NOEC - No-Observed Effect Concentration  
 OECD - Organisation for Economic Co-operation and Development  
 PBT - Persistent Bioaccumulative Toxic  
 PNEC - Predicted No-Effect Concentration  
 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SDS - Safety Data Sheet  
 vPvB - Very Persistent and Very Bioaccumulative

### Other information

None.

| Full text of H-statements: |                                                      |
|----------------------------|------------------------------------------------------|
| H241                       | Heating may cause a fire or explosion                |
| H300                       | Fatal if swallowed                                   |
| H317                       | May cause an allergic skin reaction                  |
| H319                       | Causes serious eye irritation                        |
| H360                       | May damage fertility or the unborn child             |
| H400                       | Very toxic to aquatic life                           |
| H401                       | Toxic to aquatic life                                |
| H402                       | Harmful to aquatic life                              |
| H410                       | Very toxic to aquatic life with long lasting effects |
| H411                       | Toxic to aquatic life with long lasting effects      |
| H412                       | Harmful to aquatic life with long lasting effects    |

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*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.*