

# HIT-HY 170

## Safety information for 2-Component-products

Issue date: 30/01/2025

Revision date: 30/01/2025

Supersedes: 19/11/2024

Version: 2.0

### SECTION 1: Kit identification

#### 1.1 Product identifier

Product name

HIT-HY 170



Product code

BU Anchor

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

Hilti Far East Private Ltd.  
80 Pasir Panjang Road,  
#16-83/84 Mapletree Business City  
117372 Singapore - Singapur  
T +65 6777 7887 - F +65 6777 3057  
[sg-customerservice@hilti.com](mailto:sg-customerservice@hilti.com)

### SECTION 2: General information

Restrictions on use

For professional use only

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: Kit contents

#### Classification of the Product

##### GHS SG classification

Health hazards

Serious eye damage/eye irritation, Category 2

Environmental hazards

Skin sensitisation, Category 1

Hazardous to the aquatic environment – Acute Hazard, Category 1

Hazardous to the aquatic environment – Chronic Hazard, Category 1

#### Label elements

##### GHS SG labelling

Hazard pictograms (GHS SG)



GHS07



GHS09

Signal word (GHS SG)

Warning

Hazardous ingredients

methacrylates, dibenzoyl peroxide

Hazard statements (GHS SG)

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

# HIT-HY 170

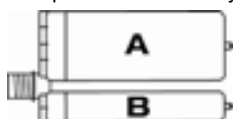
## Safety information for 2-Component-products

### Precautionary statements (GHS SG)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.

### Additional information

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



| Name          | General description | Quantity | Unit         | GHS SG classification  |
|---------------|---------------------|----------|--------------|--|
| HIT-HY 170, B |                     | 1        | pcs (pieces) | Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| HIT-HY 170, A |                     | 1        | pcs (pieces) | Eye Irrit. 2, H319<br>Skin Sens. 1, H317                               |

## SECTION 4: General advice

### General advice

For professional users only

## SECTION 5: Safe handling advice

### General measures

Spilled material may present a slipping hazard

### Environmental precautions

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

### Storage conditions

Keep cool. Protect from sunlight.

### Precautions for safe handling

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

### Methods for cleaning up

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

### For containment

Collect spillage.

### Incompatible materials

Sources of ignition  
Direct sunlight

### Incompatible products

Strong bases  
Strong acids

## SECTION 6: First aid measures

### First-aid measures after eye contact

Rinse immediately with plenty of water  
Remove contact lenses, if present and easy to do. Continue rinsing.  
Obtain medical attention if pain, blinking or redness persists

### First-aid measures after ingestion

Rinse mouth  
Get medical advice/attention.  
Do not induce vomiting  
Obtain emergency medical attention

# HIT-HY 170

## Safety information for 2-Component-products

---

|                                       |   |
|---------------------------------------|---|
| 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/...<br>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   |

### SECTION 7: Fire fighting measures

|  |  |
|--|--|
| Firefighting instructions                        | Use water spray or fog for cooling exposed containers<br>Exercise caution when fighting any chemical fire<br>Prevent fire fighting water from entering the environment |
| Protection during firefighting                   | Self-contained breathing apparatus<br>Do not enter fire area without proper protective equipment, including respiratory protection                                     |
| Hazardous decomposition products in case of fire | Thermal decomposition generates :<br>Carbon dioxide<br>Carbon monoxide   |

### SECTION 8: Other information

No data available

# HIT-HY 170, B

## Safety Data Sheet

According to SS 586 Part 3 (2022)  
Issue date: 30.01.2025

Revision date: 30.01.2025

Supersedes: 19.11.2024

Version: 2.0

### SECTION 1: Identification

#### 1.1. Product identifier

|               |                                |
|---------------|--------------------------------|
| Name          | HIT-HY 170, B                  |
| Product code  | BU Anchor                      |
| Chemical name | Injection Mortar HIT-HY 170, B |

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended uses and restrictions For professional use only

#### 1.4. Supplier's details

##### Supplier

Hilti Far East Private Ltd.  
80 Pasir Panjang Road, #16-83/84 Mapletree Business City Singapore  
Singapur 117372  
T +65 6777 7887 - F +65 6777 3057  
[sg-customerservice@hilti.com](mailto:sg-customerservice@hilti.com)

##### Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH  
Hiltistraße 6 Kaufering Deutschland 86916  
T +49 8191 906876  
[product.compliance-anchors@hilti.com](mailto:product.compliance-anchors@hilti.com)

#### 1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance  
+49 (0)6132-84463

### SECTION 2: Hazard identification

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

|                       |  |
|-----------------------|--|
| Health hazards        | Skin sensitisation, Category 1   |
| Environmental hazards | Hazardous to the aquatic environment – Acute Hazard, Category 1<br>Hazardous to the aquatic environment – Chronic Hazard, Category 1 |

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

##### Hazard pictograms (GHS SG)



##### Signal word (GHS SG)

Warning

##### Hazard statements (GHS SG)

H317 : May cause an allergic skin reaction

H410 : Very toxic to aquatic life with long lasting effects

##### Precautionary statements

##### Prevention

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

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

##### Response

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

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

P337+P313 : If eye irritation persists: Get medical advice/attention.

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

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

No additional information available

# HIT-HY 170, B

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the applicable regulations

### 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). |
| Inhalation                 | Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.  |
| Skin contact               | Wash contaminated clothing before reuse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention.  |
| 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.     |
| 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.         |

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

|                                   |                        |
|-----------------------------------|------------------------|
| Other medical advice or treatment | Treat symptomatically. |
|-----------------------------------|------------------------|

### 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.   |

# HIT-HY 170, B

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### 6.2. Environmental precautions

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

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

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

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

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters/Occupational exposure limits

| HIT-HY 170, B                            |   |
|--|---|
| Singapore - Occupational Exposure Limits |   |
| Local name                               | Benzoyl peroxide                        |
| PEL (OEL TWA)                            | 5 mg/m <sup>3</sup>                     |
| Regulatory reference                     | WSH (General Provision) Regulation 2014 |

### 8.2. Appropriate engineering control measures

|                                  |                              |
|----------------------------------|------------------------------|
| Appropriate engineering controls | Ensure adequate ventilation. |
|----------------------------------|------------------------------|

### 8.3. Personal protection – 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. Change contaminated gloves after 30 min. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer |
|-----------------|---|

| Type              | Material             | Permeation       | Thickness (mm) | Penetration | Standard   |
|-------------------|----------------------|------------------|----------------|-------------|------------|
| Disposable gloves | Nitrile rubber (NBR) | 3 (> 60 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 |

# HIT-HY 170, B

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### Personal protective equipment symbol(s)



Environmental exposure controls  
Consumer exposure controls

Avoid release to the environment.  
Avoid contact during pregnancy/while nursing.

## SECTION 9: Physical and chemical properties

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

|   |                           |
|---|---------------------------|
| Physical state                                  | Solid                     |
| Appearance                                      | Thixotropic paste.        |
| Colour  | white                     |
| Odour   | characteristic            |
| Odour threshold                                 | Not determined            |
| pH  | ≈ 6                       |
| Relative evaporation rate (butylacetate=1)      | No data available         |
| Evaporation rate                                | No data available         |
| Melting point                                   | No data available         |
| Freezing point                                  | No data available         |
| Boiling point                                   | No data available         |
| Flash point                                     | No data available         |
| Auto-ignition temperature                       | Not self-igniting         |
| Decomposition temperature                       | No data available         |
| Flammability                                    | Flammable                 |
| Vapour pressure                                 | No data available         |
| Relative vapour density at 20°C                 | No data available         |
| Relative density                                | No data available         |
| Density   | 1.7 g/cm³ DIN 51757       |
| Solubility                                      | Water: Not miscible       |
| Partition coefficient n-octanol/water (Log Pow) | No data available         |
| Partition coefficient n-octanol/water (Log Kow) | No data available         |
| Viscosity, kinematic                            | 52941.176 mm²/s           |
| Viscosity, dynamic                              | 90 Pa·s HN-0333           |
| Explosive properties                            | Product is not explosive. |
| Oxidising properties                            | No data available         |
| Explosive limits                                | No data available         |
| Particle size                                   | No data available         |
| Particle size distribution                      | No data available         |
| Particle shape                                  | No data available         |
| Particle aspect ratio                           | No data available         |
| Particle specific surface area                  | No data available         |

### 9.2. Other information

|      |       |
|------|-------|
| SADT | 65 °C |
|------|-------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

# HIT-HY 170, B

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### 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. Acute toxicity

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Acute toxicity (oral)             | Not classified                       |
| Acute toxicity (dermal)           | Not classified                       |
| Acute toxicity (inhalation)       | Not classified                       |
| Skin corrosion/irritation         | Not classified                       |
|                                   | pH: ≈ 6                              |
| 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 170, B        |                                 |
|----------------------|---------------------------------|
| Viscosity, kinematic | 52941.176 mm <sup>2</sup> /s    |
| Density              | 1.7 g/cm <sup>3</sup> DIN 51757 |

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)  | Very toxic to aquatic life.                           |
| Hazardous to the aquatic environment, long-term (chronic) | Very toxic to aquatic life with long lasting effects. |
| Other information   | Avoid release to the environment.                     |

### 12.2. Persistence and degradability

| HIT-HY 170, B                 |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| HIT-HY 170, B             |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |



# HIT-HY 170, B

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### 12.4. Mobility in soil

| HIT-HY 170, B    |                                     |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |

### 12.5. Other adverse effects

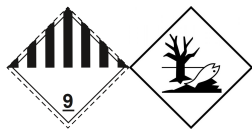

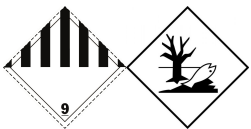

|                       |                                     |
|-----------------------|-------------------------------------|
| Ozone                 | Not classified                      |
| Other adverse effects | No additional information available |

## SECTION 13: Disposal considerations

|  |  |
|--|--|
| 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. |
|--|--|

## 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   |
| <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)                 |
| <b>Transport document description</b>  |   |   |   |
| UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, (-)                 | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, MARINE POLLUTANT | UN 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide), 9, III | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III |
| <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 |   |   |   |

# HIT-HY 170, B

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### 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                  | <div style="border: 2px solid black; padding: 5px; text-align: center;"> <div style="background-color: orange; color: black; font-weight: bold; padding: 2px 10px;">90</div> <div style="background-color: orange; color: black; font-weight: bold; padding: 2px 10px;">3077</div> </div> |

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                       |
| 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

### 15.2. International regulations

No additional information available

### 15.3 Chemical inventory status

No additional information available

## SECTION 16: Other information

|                            |  |
|----------------------------|--|
| Issue date                 | 30/01/2025   |
| Revision date              | 30/01/2025   |
| Abbreviations and acronyms | ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways<br>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road |

# HIT-HY 170, B

## Safety Data Sheet

According to SS 586 Part 3 (2022)

---

ATE - Acute Toxicity Estimate  
BCF - Bioconcentration factor  
DMEL - Derived Minimal Effect level  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
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  
SDS - Safety Data Sheet  
vPvB - Very Persistent and Very Bioaccumulative  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
PNEC - Predicted No-Effect Concentration  
PBT - Persistent Bioaccumulative Toxic  
None.

### Other information

SDS\_SG\_Hilti

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

# HIT-HY 170, A

## Safety Data Sheet

According to SS 586 Part 3 (2022)  
Issue date: 30.01.2025

Revision date: 30.01.2025

Supersedes: 19.11.2024

Version: 2.0

### SECTION 1: Identification

#### 1.1. Product identifier

|              |               |
|--------------|---------------|
| Name         | HIT-HY 170, 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

|                                   |                           |
|-----------------------------------|---------------------------|
| Recommended uses and restrictions | For professional use only |
|-----------------------------------|---------------------------|

#### 1.4. Supplier's details

##### Supplier

Hilti Far East Private Ltd.  
80 Pasir Panjang Road, #16-83/84 Mapletree Business City Singapore  
Singapur 117372  
T +65 6777 7887 - F +65 6777 3057  
[sg-customerservice@hilti.com](mailto:sg-customerservice@hilti.com)

##### Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH  
Hiltistraße 6 Kaufering Deutschland 86916  
T +49 8191 906876  
[product.compliance-anchors@hilti.com](mailto:product.compliance-anchors@hilti.com)

#### 1.5. Emergency phone number

|                  |  |
|------------------|--|
| Emergency number | GBK GmbH Global Regulatory Compliance<br>+49 (0)6132-84463 |
|------------------|--|

### SECTION 2: Hazard identification

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

|                |   |
|----------------|---|
| Health hazards | Serious eye damage/eye irritation, Category 2<br>Skin sensitisation, Category 1 |
|----------------|---|

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

##### Hazard pictograms (GHS SG)



##### Signal word (GHS SG)

Warning

##### Hazard statements (GHS SG)

H317 : May cause an allergic skin reaction  
H319 : Causes serious eye irritation

##### Precautionary statements

##### Prevention

P280 : Wear eye protection, protective clothing, protective gloves.  
P262 : Do not get in eyes, on skin, or on clothing.

##### Response

P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 : If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 : If eye irritation persists: Get medical advice/attention.  
P302+P352 : IF ON SKIN: Wash with plenty of soap and water.

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

No additional information available

# HIT-HY 170, A

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the applicable regulations

### 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). |
| Inhalation                 | Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.  |
| Skin contact               | Wash contaminated clothing before reuse. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention.  |
| 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.     |
| 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.         |

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

|                                   |                        |
|-----------------------------------|------------------------|
| Other medical advice or treatment | Treat symptomatically. |
|-----------------------------------|------------------------|

### 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.   |

# HIT-HY 170, A

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### 6.2. Environmental precautions

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

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

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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

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

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters/Occupational exposure limits

| HIT-HY 170, A                            |   |
|--|---|
| Singapore - Occupational Exposure Limits |   |
| Local name                               | Phenothiazine                           |
| PEL (OEL TWA)                            | 5 mg/m <sup>3</sup>                     |
| Regulatory reference                     | WSH (General Provision) Regulation 2014 |

### 8.2. Appropriate engineering control measures

|                                  |                              |
|----------------------------------|------------------------------|
| Appropriate engineering controls | Ensure adequate ventilation. |
|----------------------------------|------------------------------|

### 8.3. Personal protection – 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. Change contaminated gloves after 30 min. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer |
|-----------------|---|

| Type              | Material             | Permeation       | Thickness (mm) | Penetration | Standard   |
|-------------------|----------------------|------------------|----------------|-------------|------------|
| Disposable gloves | Nitrile rubber (NBR) | 3 (> 60 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 |

# HIT-HY 170, A

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### Personal protective equipment symbol(s)



Environmental exposure controls  
Consumer exposure controls

Avoid release to the environment.  
Avoid contact during pregnancy/while nursing.

## SECTION 9: Physical and chemical properties

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

|   |                           |
|---|---------------------------|
| Physical state                                  | Solid                     |
| Appearance                                      | Thixotropic paste.        |
| Colour  | Light grey                |
| Odour   | characteristic            |
| Odour threshold                                 | Not determined            |
| pH  | No data available         |
| Relative evaporation rate (butylacetate=1)      | No data available         |
| Evaporation rate                                | No data available         |
| Melting point                                   | No data available         |
| Freezing point                                  | No data available         |
| Boiling point                                   | No data available         |
| Flash point                                     | > 109 °C DIN EN ISO 1523  |
| Auto-ignition temperature                       | Not self-igniting         |
| Decomposition temperature                       | No data available         |
| Flammability                                    | Flammable                 |
| Vapour pressure                                 | No data available         |
| Relative vapour density at 20°C                 | No data available         |
| Relative density                                | No data available         |
| Density   | 1.65 g/ml AW 4.3.23       |
| Solubility                                      | Water: Not miscible       |
| Partition coefficient n-octanol/water (Log Pow) | No data available         |
| Partition coefficient n-octanol/water (Log Kow) | No data available         |
| Viscosity, kinematic                            | 60606.061 mm²/s           |
| Viscosity, dynamic                              | 100 Pa·s HN-0333          |
| Explosive properties                            | Product is not explosive. |
| Oxidising properties                            | No data available         |
| Explosive limits                                | No data available         |
| Particle size                                   | No data available         |
| Particle size distribution                      | No data available         |
| Particle shape                                  | No data available         |
| Particle aspect ratio                           | No data available         |
| Particle specific surface area                  | No data available         |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

# HIT-HY 170, A

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### 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. Acute toxicity

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Acute toxicity (oral)             | Not classified                       |
| Acute toxicity (dermal)           | Not classified                       |
| Acute toxicity (inhalation)       | Not classified                       |
| 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 170, A                                       |                                      |
|---|--------------------------------------|
| Viscosity, kinematic                                | 60606.061 mm <sup>2</sup> /s         |
| Density   | 1.65 g/ml AW 4.3.23                  |
| 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.                   |
| Other information   | Avoid release to the environment. |

### 12.2. Persistence and degradability

| HIT-HY 170, A                 |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| HIT-HY 170, A             |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |



# HIT-HY 170, A

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### 12.4. Mobility in soil

| HIT-HY 170, A    |                                     |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |

### 12.5. Other adverse effects

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

## SECTION 13: Disposal considerations

|  |  |
|--|--|
| 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. |
|--|--|

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

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

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Rail transport

Not applicable

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

Not applicable

# HIT-HY 170, A

## Safety Data Sheet

According to SS 586 Part 3 (2022)

### SECTION 15: Regulatory information

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

No additional information available

#### 15.2. International regulations

No additional information available

#### 15.3 Chemical inventory status

No additional information available

### SECTION 16: Other information

|                            |  |
|----------------------------|--|
| Issue date                 | 30/01/2025   |
| Revision date              | 30/01/2025   |
| Abbreviations and acronyms | ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways<br>ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road<br>ATE - Acute Toxicity Estimate<br>BCF - Bioconcentration factor<br>CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008<br>DMEL - Derived Minimal Effect level<br>DNEL - Derived-No Effect Level<br>vPvB - Very Persistent and Very Bioaccumulative<br>SDS - Safety Data Sheet<br>RID - Regulations concerning the International Carriage of Dangerous Goods by Rail<br>REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006<br>PNEC - Predicted No-Effect Concentration<br>PBT - Persistent Bioaccumulative Toxic<br>OECD - Organisation for Economic Co-operation and Development<br>NOEC - No-Observed Effect Concentration<br>NOAEL - No-Observed Adverse Effect Level<br>NOAEC - No-Observed Adverse Effect Concentration<br>LOAEL - Lowest Observed Adverse Effect Level<br>LD50 - Median lethal dose<br>LC50 - Median lethal concentration<br>IMDG - International Maritime Dangerous Goods<br>IATA - International Air Transport Association<br>EC50 - Median effective concentration<br>IARC - International Agency for Research on Cancer |
| Other information          | None.  |

SDS\_SG\_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.