

HIT-HY 270

Safety information for 2-Component-products

Issue date: 30/08/2024

Revision date: 30/08/2024

Supersedes: 07/12/2018

Version: 3.0

SECTION 1: Kit identification

1.1 Product identifier

Trade name

HIT-HY 270



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

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, boric acid

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.

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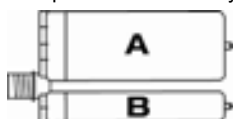
Safety information for 2-Component-products

Precautionary statements (GHS SG)

P280 - Wear eye protection, protective clothing, protective gloves.
 P262 - Do not get in eyes, on skin, or on clothing.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P302+P352 - IF ON SKIN: Wash with plenty of water.
 P337+P313 - If eye irritation persists: Get medical advice/attention.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Additional information

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



| Name | General description | Quantity | Unit | GHS SG classification |
|---------------|---------------------|----------|--------------|--|
| HIT-HY 270, B | | 1 | pcs (pieces) | Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| HIT-HY 270, A | | 1 | pcs (pieces) | Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412 |

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.

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Safety information for 2-Component-products

| | |
|---------------------------------------|---|
| First-aid measures after inhalation | Do not induce vomiting Obtain emergency medical attention |
| First-aid measures after skin contact | 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 general | Wash contaminated clothing before reuse. Wash with plenty of water/... If skin irritation or rash occurs: Get medical advice/attention. |
| Symptoms/effects after eye contact | Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person |
| Symptoms/effects after skin contact | If you feel unwell, seek medical advice (show the label where possible) |
| Other medical advice or treatment | May cause severe irritation May cause an allergic skin reaction. Treat symptomatically |

SECTION 7: Fire fighting measures

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

SECTION 8: Other information

No data available

HIT-HY 270, B

Safety Data Sheet

According to SS 586 Part 3: 2014
Issue date: 30.08.2024

Revision date: 30.08.2024

Supersedes: 17.12.2018

Version: 2.3

SECTION 1: Identification

1.1. Product identifier

Name HIT-HY 270, B
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 use For professional users 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

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6 Kaufering Deutschland 86916
T +49 8191 906876
product.compliance-anchors@hilti.com

1.5. Emergency phone number

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

SECTION 2: Hazards 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
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

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Safety Data Sheet

According to SS 586 Part 3: 2014

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Synonyms | Concentration (%) | Formula | Product identifier |
|--------------------|----------|-------------------|----------|---|
| dibenzoyl peroxide | - | 5 – 10 | C14H10O4 | CAS-No.: 94-36-0 EC-No.: 202-327-6 EC Index-No.: 617-008-00-0 |

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

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

HIT-HY 270, B

Safety Data Sheet

According to SS 586 Part 3: 2014

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.
Emergency procedures Ventilate area.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits

| HIT-HY 270, B | |
|---|---|
| Singapore - Occupational Exposure Limits | |
| Local name | Benzoyl peroxide |
| PEL (OEL TWA) | 5 mg/m ³ |
| Regulatory reference | WSH (General Provision) Regulation 2014 |
| dibenzoyl peroxide (94-36-0) | |
| Singapore - Occupational Exposure Limits | |
| Local name | Benzoyl peroxide |
| PEL (OEL TWA) | 5 mg/m ³ |
| Regulatory reference | WSH (General Provision) Regulation 2014 |

8.2. Monitoring

No additional information available

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Safety Data Sheet

According to SS 586 Part 3: 2014

8.3. Appropriate engineering control measures

Appropriate engineering controls

Ensure adequate ventilation.

8.4. Personal protection

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 |

Personal protective equipment symbol(s)



Environmental exposure controls

Avoid release to the environment.

Consumer exposure controls

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 |
| 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/cm ³ 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 mm ² /s |
| Viscosity, dynamic | 90 Pa·s HN-0333 |
| Explosive properties | Product is not explosive. |
| Oxidising properties | No data available |
| Explosive limits | No data available |

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Safety Data Sheet

According to SS 586 Part 3: 2014

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.

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 270, B | |
|---|--------------------------------------|
| Viscosity, kinematic | 52941.176 mm ² /s |
| Density | 1.7 g/cm ³ 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. |

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Safety Data Sheet

According to SS 586 Part 3: 2014

| dibenzoyl peroxide (94-36-0) | |
|--|--|
| LC50 - Fish [2] | 0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA) |
| EC50 - Crustacea [1] | 0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 algae | 0.0711 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| NOEC (acute) | 0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA) |
| NOEC chronic fish | 0.001 mg/l |
| Partition coefficient n-octanol/water (Log Pow) | 3.71 |
| 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) |

12.2. Persistence and degradability

| HIT-HY 270, B | |
|-------------------------------------|--|
| Persistence and degradability | Not established. |
| dibenzoyl peroxide (94-36-0) | |
| Persistence and degradability | Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment. |

12.3. Bioaccumulative potential

| HIT-HY 270, B | |
|--|--|
| Bioaccumulative potential | Not established. |
| dibenzoyl peroxide (94-36-0) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.71 |
| 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) |
| Bioaccumulative potential | Low bioaccumulation potential (Log Kow < 4). |

12.4. Mobility in soil

| HIT-HY 270, B | |
|--|--|
| Mobility in soil | No additional information available |
| dibenzoyl peroxide (94-36-0) | |
| Surface tension | No data available (test not performed) |
| Partition coefficient n-octanol/water (Log Pow) | 3.71 |
| 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. |

12.5. Other adverse effects

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

SECTION 13: Disposal considerations

Waste treatment methods Dispose of contents/container in accordance with licensed collector's sorting instructions.

HIT-HY 270, B

Safety Data Sheet

According to SS 586 Part 3: 2014

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.

Additional information

Clean up even minor leaks or spills if possible without unnecessary risk.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|--|---|---|---|
| 14.1. UN number or ID number | | | |
| UN 3077 | UN 3077 | UN 3077 | UN 3077 |
| 14.2. UN proper shipping name | | | |
| 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), 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 |
| 14.3. Transport hazard class(es) | | | |
| 9 | 9 | 9 | 9 |
| | | | |
| 14.4. Packing group | | | |
| III | III | III | III |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: Yes | Dangerous for the environment: Yes 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

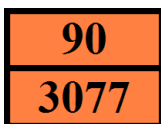
| | |
|--------------------------------|-------------------------|
| Classification code (ADR) | M7 |
| Special provisions (ADR) | 274, 335, 375, 601 |
| Limited quantities (ADR) | 5kg |
| Packing instructions (ADR) | P002, IBC08, LP02, R001 |
| Mixed packing provisions (ADR) | MP10 |
| Transport category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

HIT-HY 270, B

Safety Data Sheet

According to SS 586 Part 3: 2014

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 |
| 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

| Regulation | | Component / Mixture |
|--|---|--------------------------------|
| Environmental Protection and Management Act (Hazardous Substances) | Not applicable | |
| Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations | | |
| Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations | Maritime and Port Authority-Dangerous Goods | Organic peroxide type B, solid |
| Poisons Act | Not applicable | |
| Hazardous waste (Control of export, import and transit) Act | | |
| Strategic goods (Control) Act | | |

15.2. International regulations

No additional information available

15.3 Chemical inventory status

No additional information available

SECTION 16: Other information

Issue date 30/08/2024

HIT-HY 270, B

Safety Data Sheet

According to SS 586 Part 3: 2014

| | |
|----------------------------|--|
| Revision date | 30/08/2024 |
| 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. |

| Indication of changes | | | |
|-----------------------|----------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| 1 | Supplier information | Modified | |
| 14 | Transportation information | Added | |

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 270, A

Safety Data Sheet

According to SS 586 Part 3: 2014
Issue date: 30.08.2024

Revision date: 30.08.2024

Supersedes: 07.12.2018

Version: 3.0

SECTION 1: Identification

1.1. Product identifier

Name HIT-HY 270, 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 use For professional users 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

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6 Kaufering Deutschland 86916
T +49 8191 906876
product.compliance-anchors@hilti.com

1.5. Emergency phone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Health hazards Serious eye damage/eye irritation, Category 2
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 270, A

Safety Data Sheet

According to SS 586 Part 3: 2014

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Synonyms | Concentration (%) | Formula | Product identifier |
|---|---|-------------------|-----------|--|
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol | 1,2-propanediol, 2-methyl, monomethacrylate / 2-propenoic acid, 2-methyl-, 2-hydroxymethylethyl ester / hydroxypropyl methacrylate (HPMA) | 10 – 25 | C7H12O3 | CAS-No.: 27813-02-1 EC-No.: 248-666-3 EC Index-No.: 607-125-00-5 |
| Tricyclodecane dimethanol dimethacrylate | - | 2.5 - 5 | C20H28O4 | CAS-No.: 43048-08-4 EC-No.: 256-062-6 |
| 1,1,1-Trimethylolpropane trimethacrylate | TMPTMA | 2.5 - 5 | C18H26O6 | CAS-No.: 3290-92-4 EC-No.: 221-950-4 |
| 1,1'-(p-tolylimino)dipropan-2-ol | DiPpT | 0.1 - 1 | C13H21NO2 | CAS-No.: 38668-48-3 EC-No.: 254-075-1 |
| boric acid | basilit B / boracic acid / boric acid / boric acid (H3-BO3) / borofax / boron trihydroxide / dr.'s 1 flea terminator DF / dr.'s 1 flea terminator DFPBO / dr.'s 1 flea terminator DT / dr.'s 1 flea terminator DTPBO / E284 / epa pesticide code 011001 / flea prufe / LUCHEM AT / OPTIBOR NF / OPTIBOR SP / OPTIBOR SQ / OPTIBOR TG / OPTIBOR TP / orthoboric acid / orthoboric acid / sassolite / super flea eliminator / three elephant / trihydroxyborone | 0.1 - <0.3 | BH3O3 | CAS-No.: 10043-35-3 EC-No.: 233-139-2 EC Index-No.: 005-007-00-2 |
| 4-tert-butylpyrocatechol | (dimethyl-1,1 ethyl)-4 dihydroxy-1,2 benzene / 1,2-Benzenediol, 4-(1,1-dimethylethyl)- / 4-(1,1-dimethylethyl)-1,2-benzenediol / 4-tert-butylpyrocatechol | 0.1 - 1 | C10H14O2 | CAS-No.: 98-29-3 EC-No.: 202-653-9 |

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.

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| | |
|--------------|---|
| 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

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

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. |

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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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.

Handling temperature

5 – 40 °C

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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering control measures

Appropriate engineering controls

Ensure adequate ventilation.

8.4. Personal protection

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) | 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 |

Personal protective equipment symbol(s)



Environmental exposure controls

Avoid release to the environment.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|----------------------------------|
| Physical state | Solid |
| Appearance | Thixotropic paste. |
| Colour | light brown |
| Odour | characteristic |
| Odour threshold | Not determined |
| pH | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | > 100 °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 | 1.66 g/cm ³ 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 | 48192.771 mm ² /s |
| Viscosity, dynamic | 80 Pa·s HN-0333 |
| Explosive properties | Product is not explosive. |
| Oxidising properties | No data available |
| Explosive limits | No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Acute toxicity

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

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Acute toxicity (inhalation)

Not classified

| HIT-HY 270, A | |
|---|---|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 Inhalation - Rat (Vapours) | > 20 mg/l/4h |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| LD50 oral rat | > 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rabbit | ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value) |
| 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4) | |
| LD50 oral rat | > 5000 mg/kg |
| LD50 dermal rat | > 3000 mg/kg |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | |
| LD50 oral rat | 25 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| boric acid (10043-35-3) | |
| LD50 oral rat | 2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >2600 mg/kg bodyweight; Rat; Experimental value) |
| LD50 oral | 2660 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR) |
| LD50 dermal | 2500 mg/kg |
| 4-tert-butylpyrocatechol (98-29-3) | |
| LD50 oral rat | 815 mg/kg bodyweight (Rat; Lethal; ECHA) |
| LD50 oral | 2820 mg/kg |
| LD50 dermal rat | 1331 mg/kg bodyweight (Rat; Lethal; ECHA) |
| LD50 dermal | 630 mg/kg |
| 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 270, A | |
| Viscosity, kinematic | 48192.771 mm ² /s |
| Density | 1.66 g/cm ³ DIN 51757 |
| Potential adverse human health effects and symptoms | No additional information available. |

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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. |

| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
|---|--|
| LC50 - Fish [1] | 493 mg/l (48 h; Leuciscus idus; GLP) |
| EC50 - Crustacea [1] | > 143 mg/l (48 h; Daphnia magna; GLP) |
| ErC50 algae | 97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| BCF - Fish [1] | ≤ 100 |
| BCF - Fish [2] | 3.2 Quantitative structure-activity relationship (QSAR) |
| Partition coefficient n-octanol/water (Log Pow) | 0.97 (OECD 102 method) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.9 (log Koc, Calculated value) |
| 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) |
| Tricyclodecane dimethanol dimethacrylate (43048-08-4) | |
| | |
| 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4) | |
| LC50 - Fish [1] | 2 mg/l |
| ErC50 algae | 3.88 mg/l |
| NOEC chronic fish | 0.138 mg/l |
| NOEC chronic crustacea | 0.177 mg/l |
| BCF - Fish [2] | 366 l/kg |
| Partition coefficient n-octanol/water (Log Kow) | 4.39 |
| Partition coefficient n-octanol/water (Log Pow) | 3.53 |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | |
| LC50 - Fish [1] | ≈ 17 mg/l |
| LC50 - Other aquatic organisms [1] | 245 mg/l |
| EC50 - Crustacea [1] | 28.8 mg/l |
| NOEC (acute) | 57.8 mg/l |
| Partition coefficient n-octanol/water (Log Kow) | 2.1 |
| boric acid (10043-35-3) | |
| LC50 - Fish [1] | 447 mg/l |
| LC50 - Fish [2] | 79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water) |
| EC50 - Crustacea [1] | 658 – 875 mg/l (48 h; Daphnia magna) |
| EC50 - Crustacea [2] | 19.7 mg/l (336 h; Daphnia magna) |

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| boric acid (10043-35-3) | |
|--|--|
| ErC50 algae | 290 mg/l |
| NOEC chronic fish | 2.1 mg/l |
| BCF - Fish [2] | < 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | -1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C) |
| 4-tert-butylpyrocatechol (98-29-3) | |
| LC50 - Fish [1] | 0.12 mg/l (96 h, Danio rerio, Lethal, ECHA) |
| ErC50 algae | 10.17 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |
| Partition coefficient n-octanol/water (Log Pow) | 1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.37 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |

12.2. Persistence and degradability

| HIT-HY 270, A | |
|---|-------------------------------------|
| Persistence and degradability | Not established. |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| Not rapidly degradable | |
| Persistence and degradability | Readily biodegradable in water. |
| 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4) | |
| Not rapidly degradable | |
| boric acid (10043-35-3) | |
| Not rapidly degradable | |
| 4-tert-butylpyrocatechol (98-29-3) | |
| Not rapidly degradable | |
| Persistence and degradability | Not readily biodegradable in water. |
| ThOD | 2.4 g O ₂ /g substance |

12.3. Bioaccumulative potential

| HIT-HY 270, A | |
|---|---|
| Bioaccumulative potential | Not established. |
| 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 Pow) | 0.97 (OECD 102 method) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.9 (log Koc, Calculated value) |
| Bioaccumulative potential | Low bioaccumulation potential (BCF < 500). |

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| | |
|---|--|
| 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4) | |
| BCF - Fish [2] | 366 l/kg |
| Partition coefficient n-octanol/water (Log Pow) | 3.53 |
| Partition coefficient n-octanol/water (Log Kow) | 4.39 |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | |
| Partition coefficient n-octanol/water (Log Kow) | 2.1 |
| boric acid (10043-35-3) | |
| BCF - Fish [2] | < 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | -1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C) |
| Bioaccumulative potential | Low bioaccumulation potential (BCF < 500). |
| 4-tert-butylpyrocatechol (98-29-3) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.37 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 12.4. Mobility in soil | |
| HIT-HY 270, A | |
| Mobility in soil | No additional information available |
| 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.97 (OECD 102 method) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.9 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4) | |
| Partition coefficient n-octanol/water (Log Pow) | 3.53 |
| Partition coefficient n-octanol/water (Log Kow) | 4.39 |
| 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3) | |
| Partition coefficient n-octanol/water (Log Kow) | 2.1 |
| boric acid (10043-35-3) | |
| Surface tension | No data available in the literature |
| Partition coefficient n-octanol/water (Log Pow) | -1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C) |
| Ecology - soil | No (test)data on mobility of the substance available. May be harmful to plant growth, blooming and fruit formation. |
| 4-tert-butylpyrocatechol (98-29-3) | |
| Surface tension | No data available (test not performed) |
| Partition coefficient n-octanol/water (Log Pow) | 1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.37 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP) |
| Ecology - soil | Highly mobile in soil. |

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12.5. Other adverse effects

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

SECTION 13: Disposal considerations

| | |
|--|--|
| Waste treatment methods | Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| 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. |
| Additional information | Clean up even minor leaks or spills if possible without unnecessary risk. |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|---|----------------|----------------|----------------|
| 14.1. UN number or ID number | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 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

SECTION 15: Regulatory information

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

No additional information available

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15.2. International regulations

No additional information available

15.3 Chemical inventory status

No additional information available

SECTION 16: Other information

| | |
|----------------------------|--|
| Issue date | 30/08/2024 |
| Revision date | 30/08/2024 |
| 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. |

Indication of changes

| Section | Changed item | Change | Comments |
|---------|--|----------|----------|
| 2 | GHS SG classification | Modified | |
| 2 | Hazard statements (GHS SG) | Modified | |
| 2 | Hazard pictograms (GHS SG) | Modified | |
| 3 | Composition/information on ingredients | Modified | |

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.