

HIT-RE 500 V4

Safety information for 2-Component-products

Issue date: 17/04/2025

Revision date: 17/04/2025

Supersedes: 11/11/2022

Version: 3.0

SECTION 1: Kit identification

1.1 Product identifier

Product name

HIT-RE 500 V4

Product code

BU Anchor



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

Hilti (Malaysia) Sdn. Bhd.

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SECTION 2: General information

Restrictions on use

Restricted to professional users

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

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2014)

Skin Corr. 1B

H314

Eye Dam. 1

H318

Skin Sens. 1

H317

Repr. 1B

H360

STOT SE 3

H335

Aquatic Chronic 2

H411

Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2014)

Hazard pictograms (GHS MY)



GHS05



GHS07



GHS08



GHS09

Signal word (GHS MY)

Danger

HIT-RE 500 V4

Kit Safety Information Sheet (SIS)

Hazard statements (GHS MY)

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H360 - May damage fertility or the unborn child
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS MY)

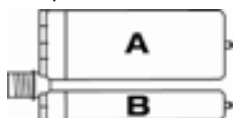
P280 - Wear eye protection, protective clothing, protective gloves
P262 - Do not get in eyes, on skin, or on clothing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P333+P313 - If skin irritation or rash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

Additional information

2-component-foilpack, contains:

Component A: Epoxy resin, Reactive diluent, inorganic filler

Component B: Amine hardener, inorganic filler



| Name | General description | Quantity | Unit | Classification according to Industry Code of Practice on chemicals classification and hazard communication (2014) |
|------------------|---------------------|----------|--------------|---|
| HIT-RE 500 V4, A | | 1 | pcs (pieces) | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |
| HIT-RE 500 V4, B | | 1 | pcs (pieces) | Acute Tox. 5 (Oral), H303 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 2, H401 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
Avoid release to the environment
Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations.
After curing, the product can be disposed of with household waste

Storage conditions

Protect from sunlight. Store in a well-ventilated place.

Technical measures

Comply with applicable regulations

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
Avoid contact during pregnancy/while nursing

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

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Kit Safety Information Sheet (SIS)

| | |
|------------------------|---|
| For containment | On land, sweep or shovel into suitable containers Store away from other materials. |
| Incompatible materials | Collect spillage. Sources of ignition Direct sunlight |
| Incompatible products | Strong bases Strong acids |

SECTION 6: First aid measures

| | |
|---------------------------------------|--|
| First-aid measures after eye contact | Get immediate medical advice/attention. Immediately rinse with water for a prolonged period while holding the eyelids wide open Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist |
| First-aid measures after ingestion | Do not induce vomiting Rinse mouth Immediately call a POISON CENTER/doctor. |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | Wash with plenty of water/... Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get immediate medical advice/attention. |
| First-aid measures general | Never give anything by mouth to an unconscious person If you feel unwell, seek medical advice (show the label where possible) |
| Symptoms/effects | Causes severe skin burns and eye damage. |
| Symptoms/effects after eye contact | Causes serious eye damage. |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |

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-RE 500 V4, A

Safety Data Sheet

According to ICOP 2014

Issue date: 24/04/2025 Revision date: 24/4/2025

Supersedes: 13/06/2023

Version: 3.0

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Name HIT-RE 500 V4, A

1.2. Other means of identification

Product code BU Anchor

1.3. Recommended use of the chemical and restrictions on use

Recommended use For professional use only
Restrictions on use Restricted to professional users

1.4. Supplier details

Supplier

Hilti (Malaysia) Sdn. Bhd.
F-5-A, Sime Darby Brunfield Tower, No. 2, Jalan PJU 1A/7A
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Department issuing data specification sheet

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Hiltistraße 6
86916 Kaufering
Deutschland
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

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------|--|--------------|--|---------|
| Malaysia | Malaysia National Poison Centre (NPC) Universiti Sains Malaysia | 11800 Penang | +60 (0)4 6536 999 (Mon-Fri 8am-10pm; Sat, Sun & Public Holiday 8am-5pm) | |

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Skin corrosion or irritation, Category 2 H315
Serious eye damage or eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Reproductive toxicity, Category 1B H360
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY)



Signal word (GHS MY)

Danger

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According to ICOP 2014

| | |
|-----------------------------------|---|
| Contains | 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; Trimethylolethantriglycidylether; butanedioldiglycidyl ether; [3-(2,3-epoxypropoxy)propyl]trimethoxysilane; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol |
| Hazard statements (GHS MY) | H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H360 - May damage fertility or the unborn child H411 - Toxic to aquatic life with long lasting effects |
| Precautionary statements (GHS MY) | P280 - Wear eye protection, protective clothing, protective gloves P262 - Do not get in eyes, on skin, or on clothing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P333+P313 - If skin irritation or rash occurs: Get medical advice/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 that do not result in classification

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019) |
|--|---------------------|---------|--|
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane | CAS-No.: 1675-54-3 | 25 – 40 | Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute Not classified Aquatic Chronic 2, H411 |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol | CAS-No.: 9003-36-5 | 10 – 25 | Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Trimethylolethantriglycidylether | CAS-No.: 68460-21-9 | 5 – 10 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412 |

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According to ICOP 2014

| Name | Product identifier | % | Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019) |
|--|--------------------|---------|---|
| butanedioldiglycidyl ether | CAS-No.: 2425-79-8 | 5 – 10 | Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360FD Repr. 1B, H360F Aquatic Acute Not classified Aquatic Chronic 3, H412 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F Aquatic Chronic 3, H412 |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane | CAS-No.: 2530-83-8 | 2.5 – 5 | Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Eye Dam. 1, H318 Aquatic Acute Not classified Aquatic Chronic 3, H412 |

SECTION 4: First-aid measures

4.1. Description of necessary first aid measures

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

4.2. Most important symptoms/effects, acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects after skin contact | Causes skin irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | Causes serious eye irritation. |

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

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According to ICOP 2014

5.2. Physicochemical hazards arising from the chemical

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

5.3. Special protective equipment and precautions 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. |
| EAC code | 22 |

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. Avoid release to the environment. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. After curing, the product can be disposed of with household waste.

6.3. Methods and materials 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. On land, sweep or shovel into suitable containers. Store away from other materials. |

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

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

No additional information available

Exposure limit values for the other components

No additional information available

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According to ICOP 2014

8.1.1 Biological monitoring

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls No specific measures identified.

8.3. Individual protection measures, such as PPE

Materials for protective clothing:

Long sleeved protective clothing

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. Immediately change contaminated gloves

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-------------------|----------------------|-------------------|----------------|-------------|------------|
| Disposable gloves | Nitrile rubber (NBR) | 4 (> 120 minutes) | > 0,2 | | 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

No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

SECTION 9: Physical and chemical properties

| | |
|---------------------------------|---------------------|
| Physical state | Solid |
| Appearance | Thixotropic paste. |
| Colour | Light grey |
| Odour | characteristic |
| Odour threshold | No data available |
| pH | 6.6 |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | Not applicable |
| Evaporation rate | No data available |
| Flammability (solid, gas) | Non flammable. |
| Explosive limits | No data available |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Solubility | insoluble in water. |

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According to ICOP 2014

| | |
|---|--|
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Partition coefficient n-octanol/water (Log Kow) | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity, kinematic | 31034.483 – 40689.655 mm ² /s |
| Viscosity, dynamic | 45 – 59 Pa·s 23 °C |
| Density | 1.45 g/cm ³ |

SECTION 10: Stability and reactivity

| | |
|------------------------------------|---|
| Reactivity | No data available |
| Chemical stability | Stable under normal conditions |
| Possibility of hazardous reactions | No additional information available |
| Conditions to avoid | Direct sunlight, Extremely high or low temperatures |
| Incompatible materials | Strong acids, Strong bases |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced, Thermal decomposition generates :fume, Carbon monoxide, Carbon dioxide |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

| 2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
|--|---|
| LD50 oral rat | > 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value) |
| LD50 oral | 11400 mg/kg |
| LD50 dermal rat | > 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity) |
| butanedioldiglycidyl ether (2425-79-8) | |
| LD50 oral rat | 2980 mg/kg (Rat) |
| LD50 oral | 1163 mg/kg (Rat; Exp. Key study ECHA) |
| LD50 dermal rat | > 2150 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 7 day(s)) |
| LD50 dermal rabbit | 1130 mg/kg (Rabbit) |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8) | |
| LD50 oral rat | 8025 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value) |
| LD50 dermal rabbit | 4250 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402) |
| Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5) | |
| LD50 oral rat | > 5000 mg/kg bodyweight (Rat; ECHA) |
| LD50 dermal rat | > 2000 mg/kg bodyweight (Rat; ECHA) |

| | |
|--------------------------------------|--------------------------------------|
| Skin corrosion or irritation | Causes skin irritation. pH: 6.6 |
| Serious eye damage or eye irritation | Causes serious eye damage. |
| Respiratory sensitization | Not classified |
| Skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |

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According to ICOP 2014

| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
|--|---|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | May damage fertility or the unborn child. |
| Specific target organ toxicity (STOT) – single exposure | Not classified |
| Specific target organ toxicity (STOT) – repeated exposure | Not classified |
| Aspiration hazard | Not classified |
| HIT-RE 500 V4, A | |
| Viscosity, kinematic | 31034.483 – 40689.655 mm²/s |
| Potential adverse human health effects and symptoms | No additional information available. |

SECTION 12: Ecological information

12.1. Ecotoxicity

| | |
|---|--|
| Ecology - water | Toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | Toxic to aquatic life with long lasting effects. |
| Other information | Avoid release to the environment. |

| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
|--|--|
| LC50 - Fish [1] | 1.2 mg/l (96 h; Oncorhynchus mykiss; Lethal) |
| LC50 - Fish [2] | 2.3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration) |
| EC50 - Crustacea [1] | 2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration) |
| EC50 72h - Algae [1] | 9.4 mg/l (EPA 660/3 - 75/009, Selenastrum capricornutum, Static system, Fresh water, Experimental value, Biomass) |
| Partition coefficient n-octanol/water (Log Pow) | ≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C) |
| Threshold limit - Algae [1] | > 11 mg/l (72 h; Scenedesmus sp.) |
| Threshold limit - Algae [2] | 4.2 mg/l (72 h; Scenedesmus sp.) |

| butanedioldiglycidyl ether (2425-79-8) | |
|--|---|
| LC50 - Fish [1] | 24 mg/l (96 h; Pisces) ECHA |
| LC50 - Other aquatic organisms [1] | > 160 mg/l |
| NOEC (acute) | 40 mg/l |
| Partition coefficient n-octanol/water (Log Pow) | -0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.1 (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) |
| Threshold limit - Algae [1] | 88930 mg/l (96 h; Algae) |

| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8) | |
|---|--|
| LC50 - Fish [1] | 55 mg/l (96 h; Cyprinus carpio; Young) |
| LC50 - Fish [2] | 237 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss) |
| EC50 - Crustacea [1] | 473 – 710 mg/l (48 h; Daphnia magna) |
| Partition coefficient n-octanol/water (Log Pow) | -0.92 (Estimated value) |

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Safety Data Sheet

According to ICOP 2014

| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8) | |
|--|--|
| Threshold limit - Algae [1] | 119 mg/l (7 days; Anabaena flosaquae) |
| Threshold limit - Algae [2] | 250 mg/l (72 h; Selenastrum capricornutum) |

12.2. Persistence and degradability

| HIT-RE 500 V4, A | |
|---|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
| Not rapidly degradable | |
| butanedioldiglycidyl ether (2425-79-8) | |
| Biochemical oxygen demand (BOD) | 0.01982 g O ₂ /g substance |

12.3. Bioaccumulative potential

| HIT-RE 500 V4, A | |
|---|---|
| Bioaccumulative potential | Not established. |
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
| Partition coefficient n-octanol/water (Log Pow) | ≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C) |
| Bioaccumulative potential | Low bioaccumulation potential (BCF < 500). |
| butanedioldiglycidyl ether (2425-79-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.1 (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) |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.92 (Estimated value) |

12.4. Mobility in soil

| HIT-RE 500 V4, A | |
|---|---|
| Mobility in soil | No additional information available |
| 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3) | |
| Surface tension | 59 mN/m (20 °C, 0.09 g/l) |
| Partition coefficient n-octanol/water (Log Pow) | ≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C) |
| Ecology - soil | No (test)data on mobility of the substance available. |
| butanedioldiglycidyl ether (2425-79-8) | |
| Surface tension | 44.4 mN/m (20 °C, 90 %, EU Method A.5: Surface tension) |
| Partition coefficient n-octanol/water (Log Pow) | -0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.1 (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. |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8) | |
| Partition coefficient n-octanol/water (Log Pow) | -0.92 (Estimated value) |

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Safety Data Sheet

According to ICOP 2014

12.5. Other adverse effects

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

SECTION 13: Disposal information

13.1. Disposal methods

| | |
|--|--|
| 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. |
| Ecological waste information | Avoid release to the environment. |

SECTION 14: Transportation information

In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|---|---|---|---|
| Special provision(s) applied : 375 | Special provision(s) applied : 969 | Special provision(s) applied : A197 | Special provision(s) applied : 375 |
| These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of the transport regulations provided the packagings meet the general provisions. | | | |
| 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. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol) | Environmentally hazardous substance, solid, n.o.s. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol) |
| Transport document description | | | |
| UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III, (-) | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III | UN 3077 Environmentally hazardous substance, solid, n.o.s. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III |
| 14.3. Transport hazard class(es) | | | |
| 9 | 9 | 9 | 9 |
| | | | |

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Safety Data Sheet

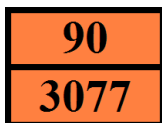
According to ICOP 2014

| ADR | IMDG | IATA | RID |
|--|--|---------------------------------------|---------------------------------------|
| 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 |
| Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1. | | | |
| not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7 | | | |

14.6. Special precautions for user

Overland transport

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



| | |
|-------------------------------|----|
| Tunnel restriction code (ADR) | - |
| EAC code | 2Z |

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 |
| MFAG-No | 171 |

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

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Safety Data Sheet

According to ICOP 2014

SECTION 15: Regulatory information

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

| Regulation | Component/ Mixture | |
|--|--|------------------|
| EHS Notification and Registration Scheme | | |
| Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993 | Not applicable | HIT-RE 500 V4, A |
| Environmental Quality (Industrial Effluent) Regulations 2009 | | HIT-RE 500 V4, A |
| Environmental Quality (Scheduled Wastes) Regulations 2007 | | HIT-RE 500 V4, A |
| Control of Industrial Major Accident Hazards Regulations 1996 | | HIT-RE 500 V4, A |
| Prohibition of Use of Substance Order 1999 | | HIT-RE 500 V4, A |
| Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000 | Chemicals requiring medical surveillance | HIT-RE 500 V4, A |
| Chemical Weapons Convention Act | Not applicable | HIT-RE 500 V4, A |
| Corrosive and Explosive Substances and Offensive Weapons Act | | HIT-RE 500 V4, A |
| Dangerous Drugs Act | | HIT-RE 500 V4, A |
| Pesticides Act | | HIT-RE 500 V4, A |
| Petroleum (Safety Measures) Act | | HIT-RE 500 V4, A |
| Poisons Act 1952 | | HIT-RE 500 V4, A |
| Poisons (Psychotropic Substances) Regulations 1989 | | HIT-RE 500 V4, A |

15.2. International agreements

No additional information available

SECTION 16: Other information

| | |
|---------------|------------|
| Version | 3.0 |
| Issue date | 24/4/2025 |
| Revision date | 24/04/2025 |
| Supersedes | 13/06/2023 |

| Indication of changes | | | |
|-----------------------|----------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| 2.1 | Classification (GHS MY) | Modified | |
| 2.2 | Hazard pictograms (GHS MY) | Modified | |
| 2.2 | Hazard statements (GHS MY) | Modified | |

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According to ICOP 2014

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
 IATA - International Air Transport Association
 EC50 - Median effective concentration
 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
 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
 None.

Other information

| Full text of H-statements | |
|------------------------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Acute Tox. Not classified (Dermal) | Acute toxicity (dermal) Not classified |
| Acute Tox. Not classified (Oral) | Acute toxicity (oral) Not classified |
| Aquatic Acute Not classified | Hazardous to the aquatic environment – Acute Hazard Not classified |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Eye Dam. 1 | Serious eye damage or eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage or eye irritation, Category 2 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. Not classified | Flammable liquids Not classified |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Repr. 1B | Reproductive toxicity, Category 1B |
| Skin Irrit. 2 | Skin corrosion or irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| H302 | Harmful if swallowed |
| H312 | Harmful if in contact with skin |



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According to ICOP 2014

| Full text of H-statements | |
|---------------------------|---|
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H360 | May damage fertility or the unborn child |
| H360F | May damage fertility |
| H360FD | May damage fertility. May damage the unborn child |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

SDS_MY_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.

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Safety Data Sheet

According to ICOP 2014

Issue date: 23/04/2025 Revision date: 23/4/2025

Supersedes: 11/11/2022

Version: 1.2

SECTION 1: Identification of the hazardous chemical and of the supplier

1.1. Product identifier

Name HIT-RE 500 V4, B

1.2. Other means of identification

Product code BU Anchor

1.3. Recommended use of the chemical and restrictions on use

Recommended use For professional use only

1.4. Supplier details

Supplier

Hilti (Malaysia) Sdn. Bhd.
F-5-A, Sime Darby Brunfield Tower, No. 2, Jalan PJU 1A/7A
Oasis Square, Oasis Damansara
47301 Petaling Jaya, Selangor
Malaysia
T +60 3 5628 7222
1800 880 985 toll free - F +60 3 7848 7399
myhilti@hilti.com

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH
Hiltistraße 6
86916 Kaufering
Deutschland
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

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------|--|--------------|--|---------|
| Malaysia | Malaysia National Poison Centre (NPC) Universiti Sains Malaysia | 11800 Penang | +60 (0)4 6536 999 (Mon-Fri 8am-10pm; Sat, Sun & Public Holiday 8am-5pm) | |

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Skin corrosion or irritation, Category 1B H314
Serious eye damage or eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Specific target organ toxicity – Single exposure, Category 3, H335
Respiratory tract irritation
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

2.2. Label elements

Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY)



Signal word (GHS MY)

Danger

Contains

2-methyl-1,5-pentanediamine; Phenol, styrenated; m-Xylylenediamine; 3-Aminopropyltriethoxysilan

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Safety Data Sheet

According to ICOP 2014

Hazard statements (GHS MY)

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H335 - May cause respiratory irritation
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS MY)

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

No additional information available

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019) |
|-----------------------------|---------------------|---------|--|
| 2-methyl-1,5-pentanediamine | CAS-No.: 15520-10-2 | 25 – 35 | Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute Not classified Aquatic Chronic Not classified |
| Phenol, styrenated | CAS-No.: 61788-44-1 | 5 – 10 | Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |
| m-Xylylenediamine | CAS-No.: 1477-55-0 | 4 – <8 | Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute Not classified Aquatic Chronic 3, H412 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 3, H412 |

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According to ICOP 2014

| Name | Product identifier | % | Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019) |
|---------------------------------------|--------------------|-------|---|
| 2,4,6-tris(dimethylaminomethyl)phenol | CAS-No.: 90-72-2 | 1 – 3 | Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute Not classified Aquatic Chronic Not classified |
| 3-Aminopropyltriethoxysilan | CAS-No.: 919-30-2 | 1 – 3 | Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Acute Tox. Not classified (Inhalation:dust,mist) Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute Not classified Aquatic Chronic Not classified |

SECTION 4: First-aid measures

4.1. Description of necessary first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | Wash with plenty of water/.... Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get immediate medical advice/attention. |
| First-aid measures after eye contact | Get immediate medical advice/attention. Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist. |
| First-aid measures after ingestion | Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor. |

4.2. Most important symptoms/effects, acute and delayed

| | |
|-------------------------------------|--|
| Symptoms/effects | Causes severe skin burns and eye damage. |
| Symptoms/effects after skin contact | May cause an allergic skin reaction. |
| Symptoms/effects after eye contact | Causes serious eye damage. |

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

5.2. Physicochemical hazards arising from the chemical

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

5.3. Special protective equipment and precautions 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. |
|---------------------------|---|

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Safety Data Sheet

According to ICOP 2014

Protection during firefighting

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

EAC code

2X

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. Avoid release to the environment. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. After curing, the product can be disposed of with household waste.

6.3. Methods and materials 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. On land, sweep or shovel into suitable containers. Store away from other materials.

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. Avoid contact during pregnancy/while nursing.

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

Technical measures

Comply with applicable regulations.

Storage conditions

Protect from sunlight. Store in a well-ventilated place.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Heat and ignition sources

Keep away from heat and direct sunlight.

Storage temperature

5 – 25 °C

SECTION 8: Exposure controls and personal protection

8.1. Control parameters

| HIT-RE 500 V4, B | |
|---|---|
| Malaysia - Occupational Exposure Limits | |
| Local name | m-Xilena α,α'-diamina # m-Xylene α,α'-diamine |
| PEL (OEL C) | 0.1 ppm |
| Remark (MY) | (kulit # skin) |

HIT-RE 500 V4, B

Safety Data Sheet

According to ICOP 2014

| m-Xylylenediamine (1477-55-0) | |
|---|---|
| Malaysia - Occupational Exposure Limits | |
| Local name | m-Xilena α,α'-diamina # m-Xylene α,α'-diamine |
| PEL (OEL C) | 0.1 ppm |
| Remark (MY) | (kulit # skin) |

Exposure limit values for the other components

Additional information

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

8.1.1 Biological monitoring

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

8.3. Individual protection measures, such as PPE

| Materials for protective clothing: |
|------------------------------------|
| Long sleeved protective clothing |

| 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. Immediately change contaminated gloves | | | | | |
| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
| Disposable gloves | Nitrile rubber (NBR) | 4 (> 120 minutes) | > 0,2 | | EN ISO 374 |

| Eye protection: |
|---|
| Wear security glasses which protect from splashes |

Personal protective equipment symbol(s):



Environmental exposure controls

No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

SECTION 9: Physical and chemical properties

| | |
|-----------------|--------------------|
| Physical state | Solid |
| Appearance | Thixotropic paste. |
| Colour | red |
| Odour | Amine-like |
| Odour threshold | No data available |
| pH | No data available |
| Melting point | No data available |
| Freezing point | No data available |

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Safety Data Sheet

According to ICOP 2014

| | |
|---|-----------------------------|
| Boiling point | No data available |
| Flash point | Not applicable |
| Evaporation rate | No data available |
| Flammability (solid, gas) | Non flammable. |
| Explosive limits | No data available |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | No data available |
| Solubility | insoluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Partition coefficient n-octanol/water (Log Kow) | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity, kinematic | 38167.939 – 53435.115 mm²/s |
| Viscosity, dynamic | 50 – 70 Pa·s HN-0333 |
| Density | 1.31 g/cm³ |

SECTION 10: Stability and reactivity

| | |
|------------------------------------|--|
| Reactivity | Corrosive vapours |
| Chemical stability | Stable under normal conditions |
| Possibility of hazardous reactions | No additional information available |
| Conditions to avoid | Direct sunlight, Extremely high or low temperatures |
| Incompatible materials | Strong acids, Strong bases |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced, Thermal decomposition generates :fume, Carbon monoxide, Carbon dioxide, Corrosive vapours |

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

| 2-methyl-1,5-pentanediamine (15520-10-2) | |
|--|------------------|
| LD50 oral rat | 1690 mg/kg (Rat) |
| LD50 oral | 1170 mg/kg (Rat) |
| LC50 Inhalation - Rat | 4.9 mg/l |
| Phenol, styrenated (61788-44-1) | |
| LD50 oral rat | > 2500 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 Inhalation - Rat | 158.31 mg/l/4h |
| m-Xylylenediamine (1477-55-0) | |
| LD50 oral rat | 930 mg/kg |
| LD50 dermal rat | > 3100 mg/kg |
| LD50 dermal | > 3100 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | 1.34 mg/l/4h |

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According to ICOP 2014

| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
|---|---|
| LD50 oral rat | 2169 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 2169 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rat | > 2000 mg/kg (Rat; Literature study; Other; >1 ml/kg; Rat; Experimental value) |
| 3-Aminopropyltriethoxysilan (919-30-2) | |
| LD50 oral rat | 1.57 – 2.83 ml/kg (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral) |
| LD50 oral | 1570 mg/kg |
| LD50 dermal rabbit | 4.29 ml/kg (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal) |
| LD50 dermal | 4290 mg/kg |
| LC50 Inhalation - Rat [ppm] | > 5 ppm (OECD 403: Acute Inhalation Toxicity, 6 h, Rat, Male, Experimental value, Inhalation (vapours)) |
| LC50 Inhalation - Rat (Dust/Mist) | 7.35 mg/l/4h |
| Skin corrosion or irritation | Causes severe skin burns. |
| Serious eye damage or eye irritation | Causes serious eye damage. |
| Respiratory sensitization | Not classified |
| Skin sensitization | May cause an allergic skin reaction. |
| Germ cell mutagenicity | Not classified |
| Carcinogenicity | Not classified |
| Reproductive toxicity | Not classified |
| Specific target organ toxicity (STOT) – single exposure | May cause respiratory irritation. |
| 2-methyl-1,5-pentanediamine (15520-10-2) | |
| Specific target organ toxicity (STOT) – single exposure | May cause respiratory irritation. |
| Specific target organ toxicity (STOT) – repeated exposure | Not classified |
| Aspiration hazard | Not classified |
| HIT-RE 500 V4, B | |
| Viscosity, kinematic | 38167.939 – 53435.115 mm²/s |
| Potential adverse human health effects and symptoms | No additional information available. |

SECTION 12: Ecological information

12.1. Ecotoxicity

| | |
|---|--|
| Ecology - water | Harmful to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | Harmful to aquatic life with long lasting effects. |
| Other information | Avoid release to the environment. |

| 2-methyl-1,5-pentanediamine (15520-10-2) | |
|---|------------------------|
| LC50 - Fish [1] | 130 mg/l (LC50; 48 h) |
| LOEC (acute) | 1800 mg/l |
| NOEC (acute) | 1000 mg/l |
| Partition coefficient n-octanol/water (Log Pow) | 0.27 (Estimated value) |

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According to ICOP 2014

| Phenol, styrenated (61788-44-1) | |
|--|--|
| LC50 - Fish [1] | 5.6 mg/l |
| LC50 - Other aquatic organisms [1] | 9.7 mg/l |
| EC50 - Crustacea [1] | 1.44 mg/l |
| NOEC (acute) | 3.2 mg/l |
| BCF - Fish [1] | 3246 l/kg (BCFBAF v3.01, Pisces, Fresh water, Weight of evidence, Fresh weight) |
| BCF - Fish [2] | 3246 mg/l |
| Partition coefficient n-octanol/water (Log Pow) | 6.24 – 7.77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow-Stirring Method) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Threshold limit - Algae [1] | 0.326 mg/l (72 h; Algae) |
| Threshold limit - Algae [2] | 0.14 mg/l (72 h; Algae) |
| m-Xylylenediamine (1477-55-0) | |
| LC50 - Fish [1] | 75 mg/l |
| LC50 - Other aquatic organisms [1] | 20.3 ppb |
| EC50 - Crustacea [1] | 15 mg/l |
| LOEC (chronic) | 15 mg/l |
| NOEC (acute) | 10.5 mg/kg |
| NOEC (chronic) | 4.7 mg/l |
| NOEC chronic crustacea | 4.7 mg/l |
| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
| LC50 - Fish [1] | > 100 mg/l (96 h; Pisces; Nominal concentration) |
| LC50 - Fish [2] | 70.9 mg/l (96 h; Pisces) |
| EC50 - Other aquatic organisms [1] | 84 mg/l (72 h; Desmodesmus subspicatus; growth rate; ECHA) |
| ErC50 algae | 84 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP) |
| NOEC (chronic) | 2 mg/l (28 d; activated sludge, domestic; respiration rate; ECHA) |
| Partition coefficient n-octanol/water (Log Pow) | 0.77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.32 (log Koc, Calculated value) |
| Threshold limit - Algae [1] | 10 - 100, Algae |
| Threshold limit - Algae [2] | 84 mg/l (72 h; Scenedesmus subspicatus; Growth rate) |
| 3-Aminopropyltriethoxysilan (919-30-2) | |
| LC50 - Fish [1] | > 934 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static system, Fresh water, Experimental value, GLP) |
| EC50 - Crustacea [1] | 331 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) |
| ErC50 algae | > 1000 mg/l (EU Method C.3, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, GLP) |
| BCF - Fish [1] | 3.4 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | 1.7 (QSAR, 20 °C) |

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According to ICOP 2014

12.2. Persistence and degradability

| HIT-RE 500 V4, B | |
|--|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| Phenol, styrenated (61788-44-1) | |
| Biochemical oxygen demand (BOD) | 0.000231 g O ₂ /g substance |
| Chemical oxygen demand (COD) | 0.004827 g O ₂ /g substance |
| 3-Aminopropyltriethoxysilan (919-30-2) | |
| Not rapidly degradable | |
| Persistence and degradability | Not readily biodegradable in water. |

12.3. Bioaccumulative potential

| HIT-RE 500 V4, B | |
|--|--|
| Bioaccumulative potential | Not established. |
| 2-methyl-1,5-pentanediamine (15520-10-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.27 (Estimated value) |
| Bioaccumulative potential | Low bioaccumulation potential (Log Kow < 4). |
| Phenol, styrenated (61788-44-1) | |
| BCF - Fish [1] | 3246 l/kg (BCFBAF v3.01, Pisces, Fresh water, Weight of evidence, Fresh weight) |
| BCF - Fish [2] | 3246 mg/l |
| Partition coefficient n-octanol/water (Log Pow) | 6.24 – 7.77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow-Stirring Method) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.1 (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 | Bioaccumulative potential. |
| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.32 (log Koc, Calculated value) |
| Bioaccumulative potential | Low bioaccumulation potential (Log Kow < 4). |
| 3-Aminopropyltriethoxysilan (919-30-2) | |
| BCF - Fish [1] | 3.4 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | 1.7 (QSAR, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |

12.4. Mobility in soil

| HIT-RE 500 V4, B | |
|---|--|
| Mobility in soil | No additional information available |
| 2-methyl-1,5-pentanediamine (15520-10-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.27 (Estimated value) |
| Phenol, styrenated (61788-44-1) | |
| Surface tension | 48.45 mN/m (20 °C, 90 %, OECD 115: Surface Tension of Aqueous Solutions) |

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According to ICOP 2014

| Phenol, styrenated (61788-44-1) | |
|--|--|
| Partition coefficient n-octanol/water (Log Pow) | 6.24 – 7.77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow-Stirring Method) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 3.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value) |
| Ecology - soil | Low potential for mobility in soil. |
| 2,4,6-tris(dimethylaminomethyl)phenol (90-72-2) | |
| Surface tension | No data available in the literature |
| Partition coefficient n-octanol/water (Log Pow) | 0.77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 °C) |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 1.32 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |
| 3-Aminopropyltriethoxysilan (919-30-2) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.7 (QSAR, 20 °C) |
| Ecology - soil | No (test)data on mobility of the substance available. |

12.5. Other adverse effects

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

SECTION 13: Disposal information

13.1. Disposal methods

| | |
|--|--|
| 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. |
| Ecological waste information | Avoid release to the environment. |

SECTION 14: Transportation information





In accordance with ADR / IMDG / IATA / RID

| ADR | IMDG | IATA | RID |
|---|--|--|--|
| 14.1. UN number or ID number | | | |
| UN 3259 | UN 3259 | UN 3259 | UN 3259 |
| 14.2. UN proper shipping name | | | |
| AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5-pentanediamine, m-Xylylenediamine) | AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5-pentanediamine, m-Xylylenediamine) | Amines, solid, corrosive, n.o.s. (2-methyl-1,5-pentanediamine, m-Xylylenediamine) | AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5-pentanediamine, m-Xylylenediamine) |
| Transport document description | | | |
| UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5-pentanediamine, m-Xylylenediamine), 8, II, (E) | UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5-pentanediamine, m-Xylylenediamine), 8, II | UN 3259 Amines, solid, corrosive, n.o.s. (2-methyl-1,5-pentanediamine, m-Xylylenediamine), 8, II | UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5-pentanediamine, m-Xylylenediamine), 8, II |

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According to ICOP 2014

| ADR | IMDG | IATA | RID |
|---|---|--|---|
| 14.3. Transport hazard class(es) | | | |
| 8 | 8 | 8 | 8 |
|  |  |  |  |
| 14.4. Packing group | | | |
| II | II | II | II |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No | Dangerous for the environment: No |
| No supplementary information available | | | |

14.6. Special precautions for user

Overland transport

| | |
|--------------------------------|--|
| Classification code (ADR) | C8 |
| Special provisions (ADR) | 274 |
| Limited quantities (ADR) | 1kg |
| Packing instructions (ADR) | P002, IBC08 |
| Mixed packing provisions (ADR) | MP10 |
| Transport category (ADR) | 2 |
| Orange plates | <div data-bbox="627 1184 788 1305"> <div>80</div> <div>3259</div> </div> |

| | |
|-------------------------------|----|
| Tunnel restriction code (ADR) | E |
| EAC code | 2X |

Transport by sea

| | |
|-----------------------------|------|
| Special provisions (IMDG) | 274 |
| Limited quantities (IMDG) | 1 kg |
| Packing instructions (IMDG) | P002 |
| EmS-No. (Fire) | F-A |
| EmS-No. (Spillage) | S-B |
| Stowage category (IMDG) | A |
| MFAG-No | 154 |

Air transport

| | |
|---------------------------------|------|
| PCA packing instructions (IATA) | 859 |
| PCA max net quantity (IATA) | 15kg |
| CAO packing instructions (IATA) | 863 |
| Special provisions (IATA) | A3 |

Rail transport

| | |
|----------------------------|-------------|
| Special provisions (RID) | 274 |
| Limited quantities (RID) | 1kg |
| Packing instructions (RID) | P002, IBC08 |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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Safety Data Sheet

According to ICOP 2014

SECTION 15: Regulatory information

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

| Regulation | Component/ Mixture | |
|--|--|------------------|
| EHS Notification and Registration Scheme | | |
| Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993 | Not applicable | HIT-RE 500 V4, B |
| Environmental Quality (Industrial Effluent) Regulations 2009 | | HIT-RE 500 V4, B |
| Environmental Quality (Scheduled Wastes) Regulations 2007 | | HIT-RE 500 V4, B |
| Control of Industrial Major Accident Hazards Regulations 1996 | | HIT-RE 500 V4, B |
| Prohibition of Use of Substance Order 1999 | | HIT-RE 500 V4, B |
| Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000 | Chemicals requiring medical surveillance | HIT-RE 500 V4, B |
| Chemical Weapons Convention Act | Not applicable | HIT-RE 500 V4, B |
| Corrosive and Explosive Substances and Offensive Weapons Act | | HIT-RE 500 V4, B |
| Dangerous Drugs Act | | HIT-RE 500 V4, B |
| Pesticides Act | | HIT-RE 500 V4, B |
| Petroleum (Safety Measures) Act | | HIT-RE 500 V4, B |
| Poisons Act 1952 | | HIT-RE 500 V4, B |
| Poisons (Psychotropic Substances) Regulations 1989 | | HIT-RE 500 V4, B |

15.2. International agreements

No additional information available

SECTION 16: Other information

| | |
|---------------|------------|
| Version | 1.2 |
| Issue date | 23/4/2025 |
| Revision date | 23/04/2025 |
| Supersedes | 11/11/2022 |

| Indication of changes | | | |
|-----------------------|------------------|----------|----------|
| Section | Changed item | Change | Comments |
| | Emergency number | Modified | |

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Safety Data Sheet

According to ICOP 2014

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
 IATA - International Air Transport Association
 EC50 - Median effective concentration
 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
 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
 None.

Other information

| Full text of H-statements | |
|--|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Acute Tox. Not classified (Dermal) | Acute toxicity (dermal) Not classified |
| Acute Tox. Not classified (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Not classified |
| Acute Tox. Not classified (Oral) | Acute toxicity (oral) Not classified |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Acute Not classified | Hazardous to the aquatic environment – Acute Hazard Not classified |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment – Chronic Hazard, Category 3 |
| Aquatic Chronic Not classified | Hazardous to the aquatic environment – Chronic Hazard Not classified |
| Eye Dam. 1 | Serious eye damage or eye irritation, Category 1 |
| Eye Irrit. 2A | Serious eye damage/eye irritation, Category 2A |
| Flam. Liq. Not classified | Flammable liquids Not classified |
| Skin Corr. 1 | Skin corrosion/irritation, Category 1 |
| Skin Corr. 1B | Skin corrosion or irritation, Category 1B |
| Skin Irrit. 2 | Skin corrosion or irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H302 | Harmful if swallowed |



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| Full text of H-statements | |
|---------------------------|---|
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H400 | Very toxic to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

SDS_MY_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.