

## 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 (New Zealand) Ltd.
Level 1, Building B 600 South Road
Ellerslie
1051 Auckland - New Zealand
T +64 9 571 9995
800 444 584 toll free - F +64 9526 7780
servicenz@hilti.com

### **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:**

### **Classification of the Product**

### 2.1. Classification of the substance or mixture

### Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Skin corrosion/irritation, Category 1B H314
Serious eye damage/eye irritation, Category 1 H318
Skin sensitisation, Category 1 H317
Reproductive toxicity, Category 1B H360
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411
Hazardous to terrestrial vertebrates H434

### 2.2. Label elements

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## **HIT-RE 500 V4**

### Safety information for 2-Component-products

Hazard pictograms (GHS NZ)









Signal word (GHS NZ)

Contains

Hazard statements (GHS NZ)

Precautionary statements (GHS NZ)

Danger

Epoxy resin, Amines

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

H434 - Hazardous to terrestrial vertebrates

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 water.

#### 2.3. Other hazards not contributing to the classification

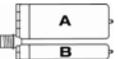
No additional information available

#### **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 the United Nations GHS
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

Prevent entry to sewers and public waters **Environmental precautions** 

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

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## **HIT-RE 500 V4**

### Safety information for 2-Component-products

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

Comply with applicable regulations Technical measures 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

On land, sweep or shovel into suitable containers

Store away from other materials.

For containment Collect spillage. Sources of ignition Incompatible materials Direct sunlight Incompatible products Strong bases

### **SECTION 6: First aid measures**

First-aid measures after ingestion

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 Do not induce vomiting

Rinse mouth

Strong acids

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

Thermal decomposition generates :

Carbon dioxide Carbon monoxide

### **SECTION 8: Other information**

No data available

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### Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Issue date: 24/04/2025 Revision date: 24/04/2025 Supersedes: 13/06/2023 Version: 2.0

### **SECTION 1: Identification**

### 1.1 Product identifier

Trade name HIT-RE 500 V4, A

Product form Mixture
Product code BU Anchor

### 1.2 Other means of identification

No additional information available

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

Recommended uses and restrictions
Recommended use
Recommended use
Restrictions on use
Restrictions on use
Restricted to professional use only
Restricted to professional users

### 1.4 Details of manufacturer or importer

Supplier

Hilti (New Zealand) Ltd.

Level 1, Building B 600 South Road Ellerslie Auckland 1051

New Zealand T +64 9 571 9995

800 444 584 toll free - F +64 9526 7780

servicenz@hilti.com

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6 Kaufering 86916 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
New Zealand	National Poisons Centre		0800 764 766

### **SECTION 2: Hazard identification**

### 2.1. Classification of the hazardous chemical

HSNO Approval Number HSR002544

### Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Skin corrosion/irritation, Category 2 H315
Serious eye damage/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. GHS Label elements, including precautionary statements

### **GHS NZ labelling**

Hazard pictograms (GHS NZ)









Signal word (GHS NZ)

Danger

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Contains 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (25 – 40 %);

Trimethylolethantriglycidylether (5 – 10 %); butanedioldiglycidyl ether (5 – 10 %); [3-(2,3-

epoxypropoxy)propyl]trimethoxysilane (2.5 – 5 %)

Hazard statements (GHS NZ) 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

Prevention P280 - Wear eye protection, protective gloves, protective clothing.

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 water.

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

No additional information available

## **SECTION 3: Composition and information on ingredients**

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc.	Classification according to GHS NZ
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	CAS-No.: 1675-54-3	25 – 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS-No.: 9003-36-5	10 – 25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
Trimethylolethantriglycidylether	CAS-No.: 68460-21-9	5 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 3, H412
butanedioldiglycidyl ether	CAS-No.: 2425-79-8	5 – 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Chronic 3, H412 Hazardous to terrestrial vertebrates, H434
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	CAS-No.: 2530-83-8	2.5 – 5	Eye Dam. 1, H318 Aquatic Chronic 3, H412

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### Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

### **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. Symptoms caused by exposure

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. Medical attention and special treatment

No additional information available

### **SECTION 5: Fire-fighting measures**

### 5.1. 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

General measures Spilled material may present a slipping hazard.

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 2Z - 2Z

### **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

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according to the Hazardous Substances and New Organisms Act (1996)

### 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 conditionsProtect from sunlight.Incompatible productsStrong bases. Strong acids.Incompatible materialsSources of ignition. Direct sunlight.

Storage temperature 5-25 °C

Heat and ignition sources Keep away from heat and direct sunlight.

### SECTION 8: Exposure controls and personal protection

### 8.1. Control parameters - exposure standards

No additional information available

#### Exposure limit values for the other components

No additional information available

### 8.2. Monitoring methods

No additional information available

#### 8.3. Engineering controls

Appropriate engineering controls

No specific measures identified.

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

Personal protective equipment Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

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

Туре	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

Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

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### Personal protective equipment symbol(s)



Other information





Environmental exposure controls

Consumer exposure controls

No specific measures are required provided the product is handled in accordance with the  $\,$ 

general rules of occupational hygiene and safety.

Avoid contact during pregnancy/while nursing.

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

Physical state Solid

Appearance Thixotropic paste.
Colour Light grey
Odour characteristic

Odour threshold No additional information available

pH 6.6

Evaporation rate No additional information available

Relative evaporation rate (butylacetate=1) No data available

Melting point / Freezing point No additional information available

Boiling point No data available
Flash point Not applicable
Auto-ignition temperature No data available
Flammability Non flammable.

Vapour pressure No additional information available Relative density No additional information available

Density Density: 1.45 g/cm³
Solubility insoluble in water.
Partition coefficient n-octanol/water (Log Pow) No data available
Viscosity, dynamic 45 – 59 Pa·s 23 °C
Explosive properties No data available

Explosive limits No additional information available

Minimum ignition energy No data available

### SECTION 10: Stability and reactivity

Reactivity

No additional information 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. Toxicity

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

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)

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according to the Hazardous Substances and New Organisms Act (1996)

2,2'-[(1-methylethylidene)bis(4,1-phenylen	eoxymethylene)]bisoxirane (1675-54-3)			
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/irritation	Causes skin irritation. pH: 6.6			
Serious eye damage/irritation	Causes serious eye damage.			
Respiratory or skin sensitisation	May cause an allergic skin reaction.			
Germ cell mutagenicity	Not classified			
Carcinogenicity	Not classified			
Reproductive toxicity	May damage fertility or the unborn child.			
STOT-single exposure	Not classified			
STOT-repeated exposure	Not classified			
Aspiration hazard	Not classified			
Potential adverse human health effects and	No additional information available.			

## **SECTION 12:** Ecological information

1	2	1	<b>Ecotoxicity</b>	,

Ecology - water Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term Not classified

(acute)

Hazardous to the aquatic environment, long-term

Toxic to aquatic life with long lasting effects.

(chronic)
Soil toxicity
Not classified

Terrestrial vertebrate toxicity Not classified Terrestrial invertebrate toxicity Not classified

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)		

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Not rapidly degradable

Persistence and degradability

butanedioldiglycidyl ether (2425-79-8)

according to the Hazardous Substances and New Organisms Act (1996)

Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
LD50 oral rat	> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)
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)
LD50 dermal rabbit	1130 mg/kg (Rabbit)
	> 2150 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 7 day(s))
LD50 oral rat	2980 mg/kg (Rat)
Threshold limit - Algae [1]	88930 mg/l (96 h; Algae)
[3-(2,3-epoxypropoxy)propyl]trimethoxysilan	ne (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)
LD50 dermal rabbit	4250 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
LD50 oral rat	8025 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value)
Threshold limit - Algae [1]	119 mg/l (7 days; Anabaena flosaquae)
Threshold limit - Algae [2]	250 mg/l (72 h; Selenastrum capricornutum)
Formaldehyde, oligomeric reaction products	with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)
	> 2000 mg/kg bodyweight (Rat; ECHA)
	> 5000 mg/kg bodyweight (Rat; ECHA)

Biochemical oxygen demand (BOD)

0.01982 g O<sub>2</sub>/g substance

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)

May cause long-term adverse effects in the environment.

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according to the Hazardous Substances and New Organisms Act (1996)

## 12.3. Bioaccumulative potential

HIT-RE 500 V4, A				
Bioaccumulative potential	Not established.			
2,2'-[(1-methylethylidene)bis(4,1-phenyleneox	ymethylene)]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, 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)			

### 12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

## **SECTION 13: Disposal considerations**

Product/Packaging disposal recommendations After curing, the product can be disposed of with household waste. Full or only partially

emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in

accordance with local/national regulations.

Ecological information Avoid release to the environment.

## **SECTION 14: Transport information**

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according to the Hazardous Substances and New Organisms Act (1996)

ADR	IMDG	IATA	RID
Special provision(s) applied : 375	Special provision(s) applied : 969	Special provision(s) applied : A197	Special provision(s) applied
or having a net mass per sing		ackagings containing a net quantity per single or inner pack or less for solids, are not subject to any other provisions of and 4.1.1.4 to 4.1.1.8.	
14.1. UN number or ID num	ber		
UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping n	ame		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bi soxirane; 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)]bi soxirane; 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)]b soxirane; Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol)
Transport document descr	iption		
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bi soxirane; 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)]bi soxirane; 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)]b soxirane; Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol) 9, III
14.3. Transport hazard clas		<u> </u>	,
9	a	a	Q

14.4. Packing group

III III III

14.5. Environmental hazards

Dangerous for the environment: Yes Dangerous for the environment: Yes Dangerous for the environment: Yes

Environmentally hazardous substances derogation applies (quantity of liquids  $\leq$  5 litres or net mass of solids  $\leq$  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

Marine pollutant: Yes

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### Safety Data Sheet

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### 14.6. Special precautions for user

**Overland transport** 

Classification code (ADR)

Special provisions (ADR) 274, 335, 375, 601

Limited quantities (ADR)

Packing instructions (ADR) P002, IBC08, LP02, R001

M7

Mixed packing provisions (ADR) MP10
Transport category (ADR) 3

Transport category (ADR)
Orange plates

90 3077

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

### **SECTION 15: Regulatory information**

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

**Hazardous Substances and New Organisms Act** 

HSNO Approval Number HSR002544

### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

 SDS Major/Minor
 None

 Issue date
 24/04/2025

 Revision date
 24/04/2025

 Supersedes
 13/06/2023

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Indication of changes				
Section	Changed item	Change	Comments	
2.1	GHS NZ classification	Modified		
2.2	Hazard pictograms (GHS NZ)	Modified		
2.2	Hazard statements (GHS NZ)	Modified		
3	Composition/information on ingredients	Modified		
14	Transportation information	Modified		

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

 $\label{eq:REACH-Registration} \textbf{REACH-Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation}$ 

(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 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
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/eye irritation, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Hazardous to terrestrial vertebrates	Hazardous to terrestrial vertebrates			
Repr. 1B	Reproductive toxicity, Category 1B			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			

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Full text of H-statements		
Skin Sens. 1	Skin sensitisation, Category 1	
H302	Harmful if swallowed	
H312	Harmful in contact with skin	
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	
H411	Toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	
H434	Hazardous to terrestrial vertebrates	

SDS\_NZ\_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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Issue date: 23/04/2025 Revision date: 23/04/2025 Supersedes: 11/11/2022 Version: 2.1

### **SECTION 1: Identification**

### 1.1 Product identifier

Trade name HIT-RE 500 V4, B Product form Mixture **BU** Anchor Product code

#### 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 use only

### 1.4 Details of manufacturer or importer

Supplier Department issuing data specification sheet

Hilti (New Zealand) Ltd. Hilti Entwicklungsgesellschaft mbH

Level 1, Building B 600 South Road Ellerslie Hiltistraße 6 Auckland 1051 Kaufering 86916 New Zealand Deutschland T +64 9 571 9995 T +49 8191 906876

800 444 584 toll free - F +64 9526 7780 product.compliance-anchors@hilti.com

servicenz@hilti.com

### 1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

Country	Organisation/Company	Address	Emergency number
New Zealand	National Poisons Centre		0800 764 766

### **SECTION 2: Hazard identification**

## 2.1. Classification of the hazardous chemical

HSR002618 **HSNO** Approval Number

### Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Skin corrosion/irritation, Category 1B H314 H318 Serious eye damage/eye irritation, Category 1 H317 Skin sensitisation, Category 1 Specific target organ toxicity - Single exposure, Category 3, Respiratory H335 tract irritation

Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412

Hazardous to terrestrial vertebrates H434

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

## **GHS NZ labelling**

Hazard pictograms (GHS NZ)







Signal word (GHS NZ)

Danger

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## Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

Contains 2-methyl-1,5-pentanediamine (25 – 35 %); Phenol, styrenated (5 – 10 %); m-

Xylylenediamine (4 – <8 %); 3-Aminopropyltriethoxysilan (1 – 3 %)

Hazard statements (GHS NZ) 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

H434 - Hazardous to terrestrial vertebrates

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 water.

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

No additional information available

## **SECTION 3: Composition and information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc.	Classification according to GHS NZ
2-methyl-1,5-pentanediamine	CAS-No.: 15520-10-2	25 – 35	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 STOT SE 3, H335 Hazardous to terrestrial vertebrates, H434
Phenol, styrenated	CAS-No.: 61788-44-1	5 – 10	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	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Hazardous to terrestrial vertebrates, H434
2,4,6-tris(dimethylaminomethyl)phenol	CAS-No.: 90-72-2	1 – 3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
3-Aminopropyltriethoxysilan	CAS-No.: 919-30-2	1 – 3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317

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### Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996)

## **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. Symptoms caused by exposure

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. Medical attention and special treatment

No additional information available

## **SECTION 5: Fire-fighting measures**

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

General measures Spilled material may present a slipping hazard.

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 2X - 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.

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according to the Hazardous Substances and New Organisms Act (1996)

### 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.

Storage temperature 5-25 °C

Heat and ignition sources Keep away from heat and direct sunlight.

### **SECTION 8: Exposure controls and personal protection**

### 8.1. Control parameters - exposure standards

HIT-RE 500 V4, B		
New Zealand - Occupational Exposure Limits		
Local name	m-Xylene a,a'-diamine	
WES-C (OEL C)	0.1 mg/m³	
Remark (NZ)	skin (Skin absorption)	
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition	

### 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.

### 8.2. Monitoring methods

No additional information available

### 8.3. Engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.

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

Personal protective equipment Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

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

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Туре	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

Environmental exposure controls

Consumer exposure controls
Other information

No specific measures are required provided the product is handled in accordance with the

general rules of occupational hygiene and safety.

Avoid contact during pregnancy/while nursing.

Do not eat, drink or smoke during use.

## **SECTION 9: Physical and chemical properties**

Physical state Solid

Appearance Thixotropic paste.

Colour red

Odour Amine-like
Odour threshold No additional information available

pH No additional information available
Evaporation rate No additional information available

Relative evaporation rate (butylacetate=1)

No data available

Melting point / Freezing point No additional information available

Boiling point No data available
Flash point Not applicable
Auto-ignition temperature No data available
Flammability Non flammable.

Vapour pressure No additional information available Relative density No additional information available

Density Density: 1.31 g/cm³
Solubility insoluble in water.
Partition coefficient n-octanol/water (Log Pow) No data available
Viscosity, dynamic 50 – 70 Pa·s HN-0333
Explosive properties No data available

Explosive limits No additional information available

Minimum ignition energy No data available

### **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. Toxicity

Acute toxicity (oral) Not classified

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Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified

Acute toxicity (innalation)	Not classified
2-methyl-1,5-pentanediamine (15520-1	0-2)
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
2,4,6-tris(dimethylaminomethyl)pheno	ol (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	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/irritation	Causes severe skin burns.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified

2-methyl-1,5-pentanediamine (15520-10-2)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure	Not classified	
Aspiration hazard	Not classified	

May cause respiratory irritation.

Potential adverse human health effects and No additional information available.

symptoms

## **SECTION 12: Ecological information**

12.1. Ecotoxicit	v
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STOT-single exposure

Ecology - water Harmful to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic) Soil toxicity

(chronic)

Terrestrial vertebrate toxicity
Terrestrial invertebrate toxicity

Other information

Not classified

Harmful to aquatic life with long lasting effects.

Not classified

Hazardous to terrestrial vertebrates.

Not classified

Avoid release to the environment.

2-methyl-1,5-pentanediamine (15520-10-2)	Other information	Avoid release to the environment.
LOEC (acute)   1800 mg/l   1	2-methyl-1,5-pentanediamine (15520-10-2)	
NOEC (acute)   1000 mg/l	LC50 - Fish [1]	130 mg/l (LC50; 48 h)
Partition coefficient n-octanol/water (Log Pow)   0.27 (Estimated value)	LOEC (acute)	1800 mg/l
D50 oral rat   1690 mg/kg (Rat)	NOEC (acute)	1000 mg/l
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)   3.246 l/kg (BCFBAF v3.01, Pisces, Fresh water, Weight of evidence, Fresh weight)   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 (dog Koc.)   Stirring Method)     Organic Carbon Normalized Adsorption Coefficient (dog Koc.)   Stirring Method)     Comparison of the Adsorption Coefficient (koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)     LO50 oral rat   > 2500 mg/kg     LD50 oral rat   > 2500 mg/kg     LD50 oral rat   > 2500 mg/kg     Dreshold limit - Algae [2]   0.14 mg/l (72 h; Algae)     M-Xylylenedlamine (1477-55-0)     LC50 - Other aquatic organisms [1]   20.3 ppb     EC50 - Crustacea [1]   15 mg/l     LOEC (chronic)   15 mg/l     LOEC (chronic)   15 mg/l     LOEC (chronic)   4.7 mg/l     NOEC (acute)   10.5 mg/kg     NOEC (chronic)   4.7 mg/l     NOEC (chronic)   4.7 mg/l     LO50 - Fish [1]   > 100 mg/kg     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; Nominal concentration)	Partition coefficient n-octanol/water (Log Pow)	0.27 (Estimated value)
LC50 - Fish [1]   5.6 mg/l	LD50 oral rat	1690 mg/kg (Rat)
LC50 - Other aquatic organisms [1]   9.7 mg/l	Phenol, styrenated (61788-44-1)	
EC50 - Crustacea [1]	LC50 - Fish [1]	5.6 mg/l
NOEC (acute)   3.2 mg/l	LC50 - Other aquatic organisms [1]	9.7 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) CPCD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	EC50 - Crustacea [1]	1.44 mg/l
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)	NOEC (acute)	3.2 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)  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; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption of Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption of Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value; OECD 121: Estimatography (HPLC), Experimental value; OECD 121: Esti	BCF - Fish [1]	3246 l/kg (BCFBAF v3.01, Pisces, Fresh water, Weight of evidence, Fresh weight)
Stirring Method	BCF - Fish [2]	3246 mg/l
Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value   > 2000 mg/kg	Partition coefficient n-octanol/water (Log Pow)	6.24 – 7.77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow-Stirring Method)
D50 oral rat		Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental
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  NOEC chronic crustacea 930 mg/kg  LD50 oral rat 930 mg/kg  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)		> 2000 mg/kg
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  NOEC chronic crustacea 930 mg/kg  LD50 oral rat 930 mg/kg  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)	LD50 oral rat	> 2500 mg/kg
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         NOEC oral rat       930 mg/kg         LD50 oral rat       930 mg/kg         LC50 - Fish [1]       > 100 mg/l (96 h; Pisces; Nominal concentration)         LC50 - Fish [2]       70.9 mg/l (96 h; Pisces)	Threshold limit - Algae [1]	0.326 mg/l (72 h; Algae)
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         LD50 oral rat       930 mg/kg         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)	Threshold limit - Algae [2]	0.14 mg/l (72 h; Algae)
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  NOEC chronic rustacea 930 mg/kg  LD50 oral rat 930 mg/kg  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)	m-Xylylenediamine (1477-55-0)	
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  LD50 oral rat 930 mg/kg   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)	LC50 - Fish [1]	75 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  > 3100 mg/kg  LD50 oral rat  930 mg/kg   2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)  LC50 - Fish [1]  > 100 mg/l (96 h; Pisces; Nominal concentration)  LC50 - Fish [2]	LC50 - Other aquatic organisms [1]	20.3 ppb
NOEC (acute)       10.5 mg/kg         NOEC (chronic)       4.7 mg/l         NOEC chronic crustacea       4.7 mg/l         > 3100 mg/kg         LD50 oral rat       930 mg/kg         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 - Crustacea [1]	15 mg/l
NOEC (chronic)  4.7 mg/l  NOEC chronic crustacea  4.7 mg/l  > 3100 mg/kg  LD50 oral rat  930 mg/kg   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)	LOEC (chronic)	15 mg/l
NOEC chronic crustacea   4.7 mg/l     > 3100 mg/kg	NOEC (acute)	10.5 mg/kg
> 3100 mg/kg	NOEC (chronic)	4.7 mg/l
LD50 oral rat   930 mg/kg	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)		> 3100 mg/kg
LC50 - Fish [1]       > 100 mg/l (96 h; Pisces; Nominal concentration)         LC50 - Fish [2]       70.9 mg/l (96 h; Pisces)	LD50 oral rat	930 mg/kg
LC50 - Fish [2] 70.9 mg/l (96 h; Pisces)	2,4,6-tris(dimethylaminomethyl)phenol (90-7)	2-2)
	LC50 - Fish [1]	> 100 mg/l (96 h; Pisces; Nominal concentration)
EC50 - Other aquatic organisms [1] 84 mg/l (72 h; Desmodesmus subspicatus; growth rate; ECHA)	LC50 - Fish [2]	70.9 mg/l (96 h; Pisces)
, 5 , 7, 3, 3, 2,	EC50 - Other aquatic organisms [1]	84 mg/l (72 h; Desmodesmus subspicatus; growth rate; ECHA)

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2,4,6-tris(dimethylaminomethyl)phenol (90-7	72-2)
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)
	> 2000 mg/kg (Rat; Literature study; Other; >1 ml/kg; Rat; Experimental value)
LD50 oral rat	2169 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 2169 mg/kg bodyweight; Rat; Experimental 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)
LD50 dermal rabbit	4.29 ml/kg (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal)
LD50 oral rat	1.57 – 2.83 ml/kg (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral)

### 12.2. Persistence and degradability

HIT-RE 500 V4, B		
Persistence and degradability	degradability May cause long-term adverse effects in the environment.	
Phenol, styrenated (61788-44-1)		
Biochemical oxygen demand (BOD)	0.000231 g O₂/g substance	
Chemical oxygen demand (COD)	0.004827 g O <sub>2</sub> /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	

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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)	
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)	
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

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## **SECTION 13: Disposal considerations**

Product/Packaging disposal recommendations After c

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 information** 

Avoid release to the environment.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID num	ber		
UN 3259	UN 3259	UN 3259	UN 3259
14.2. UN proper shipping n	ame		
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 descr	iption		
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
14.3. Transport hazard class	ss(es)		
8	8	8	8
8	8	8	8
14.4. Packing group			1
II	II	II	II
14.5. Environmental hazard	ds		
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	n available		1

### 14.6. Special precautions for user

### **Overland transport**

Transport category (ADR)

Classification code (ADR)

Special provisions (ADR)

Limited quantities (ADR)

Packing instructions (ADR)

Mixed packing provisions (ADR)

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Orange plates

80 3259

Tunnel restriction code (ADR)

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

## **SECTION 15: Regulatory information**

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

**Hazardous Substances and New Organisms Act** 

HSNO Approval Number HSR002618

3-Aminopropyltriethoxysilan (919-30-2)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR004008

### 15.2. Chemical safety assessment

No additional information available

## **SECTION 16: Other information**

 SDS Major/Minor
 None

 Issue date
 23/04/2025

 Revision date
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 Supersedes
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Indication of changes			
Section	Changed item	Change	Comments
2.1	GHS NZ classification	Modified	
2.2	Hazard statements (GHS NZ)	Modified	
3	Composition/information on ingredients	Modified	

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

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	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
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/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 4	Flammable liquids, Category 4	
Hazardous to terrestrial vertebrates	Hazardous to terrestrial vertebrates	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	

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Full text of H-statements	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H227	Combustible liquid
H302	Harmful if swallowed
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
H434	Hazardous to terrestrial vertebrates

SDS\_NZ\_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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