

HIT-RE 500 V4

Safety information for 2-Component-products

Issue date: 23/12/2021

Revision date: 23/12/2021

Version: 1.0

SECTION 1: Kit identification

1.1 Product identifier

Product name



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

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

100D 5	
ACOR-5	6.1E: Acute Tox. 5 (Oral)
SKCO-1B	8.2B: Skin Corr. 1B
EYDA-1	8.3A: Eye Dam. 1
SESK-1	6.5B: Skin Sens. 1
GCMU-2	6.6B: Muta. 2
TORE-1B	6.8A: Repr. 1B
STRI-3	6.1E (Respiratory tract irritant) : STOT SE 3
AEAH-2	9.1D: Aquatic Acute 2
AECH-2	9.1B: Aquatic Chronic 2
ECOTV-C	9.3C: Ecotoxicity to terrestrial vertebrates C

Danger

H303 - May be harmful if swallowed

2.2. Label elements

Hazard pictograms (GHS NZ)



Signal word (GHS NZ) Hazard statements (GHS NZ)



HIT-RE 500 V4

Safety information for 2-Component-products

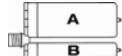
	 H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation. H341 - Suspected of causing genetic defects. H360 - May damage fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects. H433 - Harmful to terrestrial vertebrates
Precautionary statements (GHS NZ)	 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, B		1	pcs (pieces)	Acute Tox. 5 (Oral), H303 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
HIT-RE 500 V4, A		1	pcs (pieces)	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

SECTION 4: General advice

General advice

For professional users only

SECTION 5: Safe handling advi	ce
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



HIT-RE 500 V4

SECTION 6: First aid measures

Safety information for 2-Component-products

	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.
Incompatible materials	Sources of ignition Direct sunlight
Incompatible products	Strong bases Strong acids

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. Causes serious eye damage. Symptoms/effects after eye contact 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

Salety Data Sheet		
according to the Hazardous Subst	tances and New Organisms Act (19	96)
Issue date: 23/12/2021	Revision date: 23/12/2021	Supersedes:

Version: 1.0

1.1 Product ide	entifier			
Product name		HIT-RE 500 V4, A		
Product form		Mixture		
Product code		BU Anchor		
.2 Other mean	ns of identification	l.		
No additional information	on available			
	lentified uses of th		and uses advised again	
Recommended use			mponent for fasteners in the o	construction industry
Restrictions on use		For professional use	only	
I.4 Supplier's	details			
Supplier			data specification sheet	
Hilti (New Zealand) Ltd. ₋evel 1, Building B 600		Hilti Entwicklungsgese Hiltistraße 6		
Ellerslie		86916 Kaufering - Det	utschland	
1051 Auckland - New Z Γ +64 9 571 9995	ealand	T +49 8191 906876 anchor.hse@hilti.com		
800 444 584 toll free -	F +64 9526 7780	anonomio enim.com		
servicenz@hilti.com				
1.5. Emergency	phone number			
	phone number			
Emergency number		Schweizerisches Tox	ikologisches Informationszen	trum – 24h Service
		+41 44 251 51 51 (int	•	trum – 24h Service
3,		+41 44 251 51 51 (int +64 9 571 9995	ternational)	trum – 24h Service
		+41 44 251 51 51 (int	ternational)	trum – 24h Service
	Organisation/(+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free	ternational)	trum – 24h Service
Emergency number		+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company	ternational) e	
Emergency number Country New Zealand	Organisation/C National Poison	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company	ternational) e	Emergency number
Emergency number	Organisation/C National Poison	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company	ternational) e	Emergency number
Country New Zealand	Organisation/C National Poison	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company Is Centre	ternational) e	Emergency number
Country New Zealand	Organisation/C National Poison Cards identification of the substance	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company Is Centre	ternational) e	Emergency number
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number	Organisation/C National Poison Cards identification of the substance	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company ns Centre tion ce or mixture HSR002542	ternational) e Address	Emergency number
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number 3.2C 3.3A	Organisation/C National Poison Cards identification of the substance	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company is Centre tion te or mixture HSR002542 Skin corrosion/irri Serious eye dama	ternational) e Address tation, Category 1C age/eye irritation, Category 1	Emergency number
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number 3.2C 3.3A 5.5B	Organisation/C National Poison Cards identification of the substance	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company INS Centre tion te or mixture HSR002542 Skin corrosion/irri Serious eye dama Skin sensitisation	ternational) e Address tation, Category 1C age/eye irritation, Category 1 , Category 1	Emergency number
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number 3.2C 3.3A 5.5B 5.6B	Organisation/C National Poison Cards identification of the substance	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company IS Centre tion te or mixture HSR002542 Skin corrosion/irri Serious eye dama Skin sensitisation Germ cell mutage	ternational) e Address tation, Category 1C age/eye irritation, Category 1 , Category 1 enicity, Category 2	Emergency number
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number 3.2C 3.3A 5.5B 5.6B 5.8A 9.1D	Organisation/C National Poison Cards identification of the substance	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company is Centre tion Ce or mixture HSR002542 Skin corrosion/irri Serious eye dama Skin sensitisation Germ cell mutage Reproductive toxi Hazardous to the	ternational) e Address 	Emergency number 0800 623 000
Country New Zealand SECTION 2: Haz 2.1. Classificati ISNO Approval Number 3.2C 3.3A 5.5B 5.6B 5.8A 9.1D 9.1B	Organisation/C National Poison Cards identification of the substance	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company is Centre tion Ce or mixture HSR002542 Skin corrosion/irri Serious eye dama Skin sensitisation Germ cell mutage Reproductive toxi Hazardous to the Hazardous to the	ternational) e Address Address Address Address itation, Category 1C age/eye irritation, Category 1 a, Category 1 enicity, Category 2 icity, Category 1B aquatic environment — Acute aquatic environment — Chro	Emergency number 0800 623 000
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number 3.2C 3.3A 5.5B 5.6B 5.8A 9.1D 9.1B 9.3C	Organisation/C National Poison Cards identification on of the substance or	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company is Centre tion Ce or mixture HSR002542 Skin corrosion/irri Serious eye dama Skin sensitisation Germ cell mutage Reproductive toxi Hazardous to the Hazardous to the	ternational) e Address 	Emergency number 0800 623 000
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number 3.2C 3.3A 5.5B 5.6B 3.8A 9.1D 9.1B 9.3C 2.2. Label elem	Organisation/C National Poison Cards identification on of the substance or	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company is Centre tion Ce or mixture HSR002542 Skin corrosion/irri Serious eye dama Skin sensitisation Germ cell mutage Reproductive toxi Hazardous to the Hazardous to the	ternational) e Address Address Address Address itation, Category 1C age/eye irritation, Category 1 a, Category 1 enicity, Category 2 icity, Category 1B aquatic environment — Acute aquatic environment — Chro	Emergency number 0800 623 000
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number 3.2C 3.3A 5.5B 5.6B 5.8A 9.1D 9.1B 9.3C	Organisation/C National Poison Cards identification on of the substance or	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company is Centre tion Ce or mixture HSR002542 Skin corrosion/irri Serious eye dama Skin sensitisation Germ cell mutage Reproductive toxi Hazardous to the Hazardous to the	ternational) e Address Address Address Address itation, Category 1C age/eye irritation, Category 1 a, Category 1 enicity, Category 2 icity, Category 1B aquatic environment — Acute aquatic environment — Chro	Emergency number 0800 623 000
Country New Zealand SECTION 2: Haz 2.1. Classificati HSNO Approval Number 3.2C 3.3A 5.5B 5.6B 5.8A 9.1D 9.1B 9.3C 2.2. Label elem	Organisation/C National Poison Cards identification ion of the substance or	+41 44 251 51 51 (int +64 9 571 9995 ; 800 444 584 toll free Company INS Centre tion KINS Centre HSR002542 Skin corrosion/irri Serious eye dama Skin sensitisation Germ cell mutage Reproductive toxi Hazardous to the Hazardous to the Ecotoxicity to term	ternational) e Address Address Address Address itation, Category 1C age/eye irritation, Category 1 a, Category 1 enicity, Category 2 icity, Category 1B aquatic environment — Acute aquatic environment — Chro	Emergency number 0800 623 000

GHS05

GHS07

GHS08

GHS09



Safety Data Sheet

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

Signal word (GHS NZ)	Danger
Contains	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (25 – 40 %); Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (10 – 20 %); butanedioldiglycidyl ether (5 – 10 %); 1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane (5 – 10 %); [3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2.5 – 5 %)
Hazard statements (GHS NZ)	 H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H341 - Suspected of causing genetic defects. H360 - May damage fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects. H433 - Harmful to terrestrial vertebrates
Prevention	P262 - Do not get in eyes, on skin, or on clothing. P280 - Wear eye protection, protective clothing, protective gloves.
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 not contributing to the 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	Conc.	Classification according to GHS NZ
2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	(CAS-No.) 1675-54-3	25 – 40	6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2A, H319 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 2, H401 9.1B: Aquatic Chronic 2, H411
Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol	(CAS-No.) 9003-36-5	10 – 20	6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 9.1B: Aquatic Chronic 2, H411
butanedioldiglycidyl ether	(CAS-No.) 2425-79-8	5 – 10	Flam. Liq. Not classified 6.1D: Acute Tox. 4 (Oral), H302 6.1D: Acute Tox. 4 (Dermal), H312 6.1D: Acute Tox. 4 (Dermal), H312 6.1D: Acute Tox. 4 (Inhalation:dust,mist), H332 6.3A: Skin Irrit. 2, H315 8.3A: Eye Dam. 1, H318 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 3, H402 9.1C: Aquatic Chronic 3, H412 9.3C: Ecotoxicity to terrestrial vertebrates C, H433
1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2- (chloromethyl)oxirane	(CAS-No.) 30499-70-8	5 – 10	8.2C: Skin Corr. 1C, H314 8.3A: Eye Dam. 1, H318 6.5B: Skin Sens. 1, H317 6.6B: Muta. 2, H341 6.8A: Repr. 1B, H360 9.1B: Aquatic Chronic 2, H411
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	(CAS-No.) 2530-83-8	2.5 – 5	6.1E: Acute Tox. 5 (Dermal), H313 8.3A: Eye Dam. 1, H318 9.1D: Aquatic Acute 3, H402 9.1C: Aquatic Chronic 3, H412



Safety Data Sheet

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

SECTIO	N 4: First aid measures	
4.1. D	escription of first aid measures	
First-aid mea	asures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid mea	asures 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 mea	asures 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 mea	asures 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 mea	asures after ingestion	Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.
4.2. M	ost important symptoms and effe	ects, both acute and delayed
Symptoms/e	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 any immediate medical attention and special treatment needed

No additional information available

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.	Special hazards arising from the	substance or mixture	
General ı	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	I precautions for fire-fighters	
Firefighti	ng 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.	
Protectio	n 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, protect	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.



Safety Data Sheet

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

6.3. Methods and material for containment and cleaning up

For containment Methods for cleaning up Collect spillage.

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 hand	ling
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	je, including any incompatibilities
Storage conditions	Protect from sunlight.
Incompatible products	Strong bases Strong acids

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

Exposure limit values for the other components

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

8.2. Monitoring

Additional information

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls

No specific measures identified.

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

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		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



Safety Data Sheet

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

Skin and body protection

Personal protective equipment symbol(s)



Wear suitable protective clothing

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.

SECTION 9: Physical and chemical properties

Physical state Solid Appearance Colour Odour Odour threshold pН Evaporation rate Relative evaporation rate (butylacetate=1) Melting point / Freezing point Boiling point Flash point Auto-ignition temperature Flammability (solid, gas) Vapour pressure Relative density Density Solubility Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, dynamic Explosive properties Explosive limits Minimum ignition energy No data available

Thixotropic paste. Light grey characteristic No data available Non flammable. No data available No data available Density : 1.45 g/cm³ insoluble in water. No data available No data available 45 – 59 Pa·s 23 °C No data available 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



Safety Data Sheet

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

Not classified		
Not classified		
Not classified		
2980 mg/kg (Rat)		
1163 mg/kg (Rat; Exp. Key study ECHA)		
1130 mg/kg (Rabbit)		
ane (2530-83-8)		
8025 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value)		
4250 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)		
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)		
> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)		
> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)		
ts with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)		
> 5000 mg/kg bodyweight (Rat; ECHA)		
> 2000 mg/kg bodyweight (Rat; ECHA)		
Causes severe skin burns.		
Causes serious eye damage.		
May cause an allergic skin reaction.		
Suspected of causing genetic defects.		
Not classified		
May damage fertility or the unborn child.		
Not classified		
Not classified		
Not classified		
•		

HIT-RE 500 V4, A	
Viscosity, kinematic	
Potential adverse human health effects and	No additional information available.
symptoms	

SECTION 12: Ecological information

Partition coefficient n-octanol/water (Log Pow)

12.1. Toxicity	
Ecology - water	Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short- term (acute)	Toxic to aquatic life.
Hazardous to the aquatic environment, long- term (chronic)	Toxic to aquatic life with long lasting effects.
Soil toxicity	Not classified
Terrestrial vertebrate toxicity	Harmful to terrestrial vertebrates.
Terrestrial invertebrate toxicity	Not classified
Other information	Avoid release to the environment.
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

-0.15



Safety Data Sheet

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

butanedioldiglycidyl ether (2425-79-8)	
LD50 dermal rabbit	1130 mg/kg (Rabbit)
LD50 oral rat	2980 mg/kg (Rat)
Threshold limit - Algae [1]	88930 mg/l (96 h; Algae)
[3-(2,3-epoxypropoxy)propyl]trimethoxysilan	e (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)
2,2'-[(1-methylethylidene)bis(4,1-phenyleneo:	xymethylene)]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 72h - Algae [1]	9.4 mg/l (EPA 660/3 - 75/009, Selenastrum capricornutum, Static system, Fresh water, Experimental value, Biomass)
BCF - Other aquatic organisms [1]	31 (Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)
	> 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.)
Formaldehyde, oligomeric reaction products	with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)
	> 2000 mg/kg bodyweight (Rat; ECHA)
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; ECHA)

12.2. Persistence and degradability

HIT-RE 500 V4, A				
Persistence and degradability May cause long-term adverse effects in the environment.				
butanedioldiglycidyl ether (2425-79-8)				
0.01982 g O ₂ /g substance				
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)				
Not rapidly degradable				
1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane (30499-70-8)				
Not rapidly degradable				
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)				
Not rapidly degradable				

12.3. Bioaccumulative potential

HIT-RE 500 V4, A				
Bioaccumulative potential	Not established.			
butanedioldiglycidyl ether (2425-79-8)				
Partition coefficient n-octanol/water (Log Pow)	-0.15			
[3-(2,3-epoxypropoxy)propyl]trimethoxysiland	[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)			
Partition coefficient n-octanol/water (Log Pow)	-0.92 (Estimated value)			
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)				
BCF - Other aquatic organisms [1]	31 (Estimated value, Fresh weight)			



Safety Data Sheet

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

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)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)			
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).			

12.4. Mobility in soil

HIT-RE 500 V4, A				
Mobility in soil	No additional information available			
butanedioldiglycidyl ether (2425-79-8)				
Partition coefficient n-octanol/water (Log Pow)	-0.15			
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)				
Partition coefficient n-octanol/water (Log Pow)	-0.92 (Estimated value)			
2,2'-[(1-methylethylidene)bis(4,1-phenyleneo	xymethylene)]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)			
Organic Carbon Normalized Adsorption	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)			
Coefficient (Log Koc)				
5	Low potential for adsorption in soil.			

12.5. Other adverse effects

Ozone

Other adverse effects

Not classified No additional information available

SECTION 13: Disposal considerations

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

Ecology - waste materials

SECTION 14: Transport information						
In accordance with ADR / IMDG / IATA / RID						
ADR	IMDG	ΙΑΤΑ	RID			
14.1. UN number or ID number						
UN 1759	UN 1759	UN 1759	UN 1759			
14.2. UN proper shipping nam	ne					
CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)	Corrosive solid, n.o.s. (trimethylolpropane triglycidylether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)			
Transport document description UN 1759 CORROSIVE SOLID, UN 1759 CORROSIVE SOLID, UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane N.O.S. (trimethylolpropane (trimethylolpropane N.O.S. (trimethylolpropane triglycidylether), 8, III, (E), triglycidylether), 8, III, (E), UN 1759 COLLUTANT/ENVIRONMENTALL ENVIRONMENTALLY ENVIRONMENTALLY HAZARDOUS LY HAZARDOUS HAZARDOUS HAZARDOUS HAZARDOUS						
14.3. Transport hazard class(es)						
8	8	8	8			



Safety Data Sheet

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

ADR	IMDG	ΙΑΤΑ	RID
B			B
14.4. Packing group			
	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
No supplementary information availa	able		
14.6. Special precautions for	user		
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Transport category (ADR) Orange plates	C10 274 5kg P002, IBC08, I MP10 3 80	LP02, R001	
Tunnel restriction code (ADR) EAC code	1759 E 2X		
Transport by sea Special provisions (IMDG) Packing instructions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	223, 274 P002, LP02 F-A S-B A		
Air transport PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) Special provisions (IATA)	860 25kg 864 A3, A803		
Rail transport Special provisions (RID) Packing instructions (RID)	274 P002, IBC08, I	LP02, R001	
14.7. Maritime transport in b Not applicable	ulk according to IMO instrume	nts	
14.8. Hazchem or Emerge	ency Action Code		
EAC code	2X.		



Safety Data Sheet

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

SECTION 15: Regulatory information

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

Hazardous Substances and New Organisms Act HSNO Approval Number

HSR002542

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other informa SDS Major/Minor	None
Issue date	23/12/2021
Revision date	23/12/2021
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
Other information	None.
Full text of H-statements:	

•••		
	6.1D: Acute Tox. 4 (Dermal)	6.1D: Acute toxicity (dermal), Category 4
	6.1D: Acute Tox. 4 (Inhalation:dust,mist)	6.1D: Acute toxicity (inhalation:dust,mist) Category 4
	6.1D: Acute Tox. 4 (Oral)	6.1D: Acute toxicity (oral), Category 4
	6.1E: Acute Tox. 5 (Dermal)	6.1E: Acute toxicity (dermal), Category 5
	6.3A: Skin Irrit. 2	6.3A: Skin corrosion/irritation, Category 2



Safety Data Sheet

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

6.4A: Eye Irrit. 2A	6.4A: Serious eye damage/eye irritation, Category 2A		
6.5B: Skin Sens. 1	6.5B: Skin sensitisation, Category 1		
6.6B: Muta. 2	6.6B: Germ cell mutagenicity, Category 2		
6.8A: Repr. 1B	6.8A: Reproductive toxicity, Category 1B		
8.2C: Skin Corr. 1C	8.2C: Skin corrosion/irritation, Category 1C		
8.3A: Eye Dam. 1	8.3A: Serious eye damage/eye irritation, Category 1		
9.1B: Aquatic Chronic 2	9.1B: Hazardous to the aquatic environment — Chronic Hazard, Category 2		
9.1C: Aquatic Chronic 3	9.1C: Hazardous to the aquatic environment — Chronic Hazard, Category 3		
9.1D: Aquatic Acute 2	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 2		
9.1D: Aquatic Acute 3	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 3		
9.3C: Ecotoxicity to terrestrial vertebrates C	9.3C: Ecotoxicity to terrestrial vertebrates C		
Flam. Liq. Not classified	Flammable liquids Not classified		
H302	Harmful if swallowed.		
H312	Harmful in contact with skin.		
H313	May be harmful in contact with skin		
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.		
H341	Suspected of causing genetic defects.		
H360	May damage fertility or the unborn child.		
H401	Toxic to aquatic life		
H402	Harmful to aquatic life		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
H433	Harmful 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.



HIT-RE 500 V4, B Safety Data Sheet

	Bu Anchor		
of identification			
available			
			onstruction industry
F	or professional use on	ну	
buth Road H Band T +64 9526 7780 hone number S +	lilti Entwicklungsgesells liltistraße 6 6916 Kaufering - Deuts +49 8191 906876 nchor.hse@hilti.com Schweizerisches Toxiko +41 44 251 51 51 51 (inter	schaft mbH schland ologisches Informationszentr	um – 24h Service
;	800 444 584 toll free	Address	Emergency number
Organisation/Compan	e	Address	0800 623 000
r c	etails outh Road aland +64 9526 7780 bhone number	ntified uses of the substance or mixture a Composite mortar	Intified uses of the substance or mixture and uses advised agains: Composite mortar component for fasteners in the conference on the conference o

8.2B 8.3A 6.5B 6.1E (Respiratory tract irritant) 9.1D 9.1C 9.3C

2.2. Label elements

GHS NZ labelling

Hazard pictograms (GHS NZ)



Ecotoxicity to terrestrial vertebrates C

Skin sensitisation, Category 1 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation Hazardous to the aquatic environment — Acute Hazard, Category 3 Hazardous to the aquatic environment — Chronic Hazard, Category 3



Safety Data Sheet

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

Signal word (GHS NZ)	Danger
Contains	2-methyl-1,5-pentanediamine ($25 - 35$ %); Phenol, styrenated ($5 - 10$ %); m-Xylylenediamine ($5 - <8$ %); 2,4,6-tris(dimethylaminomethyl)phenol ($1 - 2.5$ %); 3-Aminopropyltriethoxysilan ($1 - 2.5$ %)
Hazard statements (GHS NZ)	 H303 - May be harmful if swallowed 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. H433 - Harmful 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 not contributing to the 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	Conc.	Classification according to GHS NZ
2-methyl-1,5-pentanediamine	(CAS-No.) 15520-10-2	25 – 35	9.3C: Ecotoxicity to terrestrial vertebrates C, H433 3.1D: Flam. Liq. 4, H227 6.1D: Acute Tox. 4 (Oral), H302 6.1D: Acute Tox. 4 (Dermal), H312 6.1D: Acute Tox. 4 (Inhalation:dust,mist), H332 8.2A: Skin Corr. 1A, H314 8.3A: Eye Dam. 1, H318 6.1E (Respiratory tract irritant) : STOT SE 3, H335
Phenol, styrenated	(CAS-No.) 61788-44-1	5 – 10	6.3A: Skin Irrit. 2, H315 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 2, H401 9.1B: Aquatic Chronic 2, H411
m-Xylylenediamine	(CAS-No.) 1477-55-0	5 – <8	6.1D: Acute Tox. 4 (Oral), H302 6.1D: Acute Tox. 4 (Inhalation:dust,mist), H332 8.2B: Skin Corr. 1B, H314 8.3A: Eye Dam. 1, H318 6.5B: Skin Sens. 1, H317 9.1D: Aquatic Acute 3, H402 9.1C: Aquatic Chronic 3, H412 9.3C: Ecotoxicity to terrestrial vertebrates C, H433
2,4,6-tris(dimethylaminomethyl)phenol	(CAS-No.) 90-72-2	1 – 2.5	6.1D: Acute Tox. 4 (Oral), H302 6.3A: Skin Irrit. 2, H315 6.4A: Eye Irrit. 2, H319 9.1D: Aquatic Acute 3, H402
3-Aminopropyltriethoxysilan	(CAS-No.) 919-30-2	1 – 2.5	6.1D: Acute Tox. 4 (Oral), H302 8.2B: Skin Corr. 1B, H314 6.5B: Skin Sens. 1, H317 9.3C: Ecotoxicity to terrestrial vertebrates C, H433



Safety Data Sheet

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

SECTION 4: First aid measures

4.1. Description of 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 and eff	ects, both 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 any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting 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. Special hazards arising from the	substance or mixture
General measures	Spilled material may present a slipping hazard.
Hazardous decomposition products in case of Thermal decomposition generates : Carbon dioxide. Carbon monoxide. fire	
5.3. Special protective equipment and	I 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.

Ventilate area.



Safety Data Sheet

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

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 material for containment and cleaning up		
For containment	Collect spillage.	
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. 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. Do not eat, drink or smoke when using this product. Always wash hands after handling the Hygiene measures 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. tilated place. nlight Store in a we otoct fre

Incompatible productsStrong bases. Strong acids.Incompatible materialsSources of ignition. Direct sunlight.Storage temperature5 - 25 °CHeat and ignition sourcesKeep away from heat and direct sunlight.	Storage conditions	Protect from sunlight. Store in a well-ventilated place	
Storage temperature $5-25$ °C	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		
	Heat and ignition sources	Keep away from heat and direct sunlight.	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HIT-RE 500 V4, B	
New Zealand - Occupational Exposure Limits	
Local name	Aluminium oxide (α Alumina)
WES-C (OEL C)	0.1 mg/m ³
Remark (NZ)	skin (Skin absorption)
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 12th 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

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.



Safety Data Sheet

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

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

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		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

Skin and body protection

Personal protective equipment symbol(s)



Environmental exposure controls

Consumer exposure controls

Wear suitable protective clothing

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.

SECTION 9: Physical and chemical properties

Physical state	Solid
Appearance	Thixotropic paste.
Colour	red
Odour	Amine-like
Odour threshold	No data available
рН	No data available
Evaporation rate	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point / Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative density	No data available
Density	Density : 1.31 g/cm ³
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	50 – 70 Pa·s HN-0333
Explosive properties	No data available
Explosive limits	No data available
Minimum ignition energy	No data available

Safety Data Sheet

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

SECTION 10: Stability and read	ctivity
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)	May be harmful if swallowed.		
Acute toxicity (dermal)	Not classified		
Acute toxicity (inhalation)	Not classified		
ATE NZ (oral)	2842.658 mg/kg bodyweight		
2-methyl-1,5-pentanediamine (15520-10-2)			
LD50 oral rat	1690 mg/kg (Rat)		
LD50 dermal rat	1870 mg/kg		
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	1090 mg/kg		
LD50 dermal rat	> 3100 mg/kg		
LD50 dermal	> 3100 mg/kg		
LC50 Inhalation - Rat (Dust/Mist)	1.34 mg/l/4h		
3-Aminopropyltriethoxysilan (919-30-2)			
LD50 oral rat	1490 mg/kg		
2,4,6-tris(dimethylaminomethyl)phenol (90-7	2-2)		
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)		
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		
STOT-single exposure	May cause respiratory irritation.		
STOT-repeated exposure	Not classified		
Aspiration hazard	Not classified		
HIT-RE 500 V4, B			
Viscosity, kinematic			



Safety Data Sheet

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

HIT-RE 500 V4, B

Potential adverse human health effects and symptoms

No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water	Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short- term (acute)	Harmful to aquatic life.
Hazardous to the aquatic environment, long- term (chronic)	Harmful to aquatic life with long lasting effects.
Soil toxicity	Not classified
Terrestrial vertebrate toxicity	Harmful to terrestrial vertebrates.
Terrestrial invertebrate toxicity	Not classified
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)		
	1870 mg/kg		
LD50 oral rat	1690 mg/kg (Rat)		
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		
EC50 72h - Algae [1]	0.326 mg/l (Algae, Literature study)		
NOEC (acute)	3.2 mg/l		
BCF - Fish [1]	3246 I/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)	3.145 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)		
	> 2000 mg/kg		
LD50 oral rat	> 2500 mg/kg		
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		
	> 3100 mg/kg		
LD50 oral rat	1090 mg/kg		
3-Aminopropyltriethoxysilan (919-30-2)			
LD50 oral rat	1490 mg/kg		



Safety Data Sheet

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

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)
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)

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
m-Xylylenediamine (1477-55-0)	
Not rapidly degradable	

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 I/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)	3.145 (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).	

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)



Safety Data Sheet

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

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)	3.145 (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 (90-7	2-2)
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)
	Highly mobile in soil.

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.	
Ecology - waste materials	Avoid release to the environment.	

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID ADR IMDG ΙΑΤΑ 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, AMINES, SOLID, CORROSIVE, Amines, solid, corrosive, n.o.s. AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5-N.O.S. (2-methyl-1,5-(2-methyl-1,5-pentanediamine, N.O.S. (2-methyl-1,5pentanediamine, mpentanediamine, mm-Xylylenediamine) pentanediamine, m-Xylylenediamine) Xylylenediamine) Xylylenediamine) Transport document description UN 3259 Amines, solid, UN 3259 AMINES, SOLID, UN 3259 AMINES, SOLID, UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-CORROSIVE, N.O.S. (2-methylcorrosive, n.o.s. (2-methyl-1,5-CORROSIVE, N.O.S. (2-methyl-1,5-pentanediamine, m-1,5-pentanediamine, mpentanediamine, m-1,5-pentanediamine, m-Xylylenediamine), 8, II Xylylenediamine), 8, II, (E) Xylylenediamine), 8, II Xylylenediamine), 8, II 14.3. Transport hazard class(es) 8 8 14.4. Packing group Ш Ш ш 14.5. Environmental hazards Dangerous for the environment: Dangerous for the environment: Dangerous for the environment: Dangerous for the environment: No No No No Marine pollutant: No No supplementary information available



Safety Data Sheet

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

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	
	80
	2250
	3259
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
	1 002, 10000
14.7. Maritime transport in bulk accord	ding to IMO instruments
Not applicable	
14.8. Hazchem or Emergency Action	on Codo
EAC code	2X.
SECTION 15: Regulatory inform	nation
15.1. Safety, health, and environme	ental national regulations specific for the product
Hazardous Substances and New Organism	
HSNO Approval Number	HSR002618
15.2. Chemical safety assessment	
No additional information available	

SECTION 16:	Other i	information	
SDS Major/Minor			

Issue date

None 23/12/2021



Safety Data Sheet

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

Revision date	23/12/2021
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
Other information	None.
Full text of H-statements:	

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3.1D: Flam. Liq. 4	3.1D: Flammable liquids, Category 4
6.1D: Acute Tox. 4 (Dermal)	6.1D: Acute toxicity (dermal), Category 4
6.1D: Acute Tox. 4 (Inhalation:dust,mist)	6.1D: Acute toxicity (inhalation:dust,mist) Category 4
6.1D: Acute Tox. 4 (Oral)	6.1D: Acute toxicity (oral), Category 4
6.1E (Respiratory tract irritant) : STOT SE 3	6.1E (Respiratory tract irritant) : Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
6.1E: Acute Tox. 5 (Oral)	6.1E: Acute toxicity (oral), Category 5
6.3A: Skin Irrit. 2	6.3A: Skin corrosion/irritation, Category 2
6.4A: Eye Irrit. 2	6.4A: Serious eye damage/eye irritation, Category 2
6.5B: Skin Sens. 1	6.5B: Skin sensitisation, Category 1
8.2A: Skin Corr. 1A	8.2A: Skin corrosion/irritation, Category 1A
8.2B: Skin Corr. 1B	8.2B: Skin corrosion/irritation, Category 1B
8.3A: Eye Dam. 1	8.3A: Serious eye damage/eye irritation, Category 1
9.1B: Aquatic Chronic 2	9.1B: Hazardous to the aquatic environment — Chronic Hazard, Category 2
9.1C: Aquatic Chronic 3	9.1C: Hazardous to the aquatic environment — Chronic Hazard, Category 3



Safety Data Sheet

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

0 1D: Aquetic Acute 2	2.4D Userselves to the envelopment of Aceta Usersel Octomer 0
9.1D: Aquatic Acute 2	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 2
9.1D: Aquatic Acute 3	9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 3
9.3C: Ecotoxicity to terrestrial vertebrates C	9.3C: Ecotoxicity to terrestrial vertebrates C
H227	Combustible liquid
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H312	Harmful in contact with skin.
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.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H433	Harmful 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.