

HIT-RE 500 V3

Safety information for 2-Component-products

Issue date: 29/09/2022 Revision date: 29/09/2022 Supersedes: 13/05/2020 Version: 2.4

SECTION 1: Kit identification

1.1 Product identifier

Product name HIT-RE 500 V3



Product code BU Ancho

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

Hilti (South Africa) (Pty) Ltd.
2 Tugela Lane, Waterfall Logistics Precinct
Corner Bridal Veil Road and R101
2090 Midrand - South Africa
T +2711 237300 - F +2711 2373111
Customercare.za@hilti.com

SECTION 2: General information

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

Classification according to the United Nations GHS

Acute Tox. 5 (Oral)	H303
Skin Corr. 1B	H314
Skin Sens. 1	H317
Muta. 2	H341
Repr. 1B	H360
STOT SE 3	H335
Aquatic Chronic 2	H411

Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)



GHS05

GHS07





GHS08

GHS09

Signal word (GHS UN)

Hazardous ingredients Epoxy resin, Amines

Hazard statements (GHS UN) H314 - Causes severe skin burns and eye damage.

Danger

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

H341 - Suspected of causing genetic defects.

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H360 - May damage fertility or the unborn child. H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS UN) P280 - Wear eye protection, protective clothing, protective gloves.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of water.

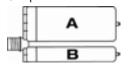
P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Additional information

2-component-foilpack, contains:

Component A: 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 V3, 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
HIT-RE 500 V3, A (GHS08)		1	pcs (pieces)	Skin Corr. 1C, H314 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 advice

General measures Spilled material may present a slipping hazard Environmental precautions Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

Avoid release to the environment

Full or only partially emptied cartridges must be disposed of as special waste in accordance

with official regulations.

After curing, the product can be disposed of with household waste.

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

Technical measures

Comply with applicable regulations

Precautions for safe handling

Wear personal protective equipment

Avoid contact with skin and eyes

Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work

Avoid contact during pregnancy/while nursing

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local legislation

Mechanically recover the product

On land, sweep or shovel into suitable containers

Store away from other materials.

For containment Collect spillage.

Incompatible materials Sources of ignition
Direct sunlight

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Incompatible products Strong bases Strong acids

SECTION 6: First aid measures

First-aid measures after eye contact Get immediate medical advice/attention.

Immediately rinse with water for a prolonged period while holding the eyelids wide open

Remove contact lenses, if present and easy to do. Continue rinsing.

Consult an eye specialist

First-aid measures after ingestion Do not induce vomiting

Rinse mouth

Immediately call a POISON CENTER/doctor.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Wash with plenty of water/...

Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get immediate medical advice/attention.

Never give anything by mouth to an unconscious person First-aid measures general

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.

Other medical advice or treatment Treat symptomatically

SECTION 7: Fire fighting measures

Firefighting instructions Use water spray or fog for cooling exposed containers

Exercise caution when fighting any chemical fire

Prevent fire fighting water from entering the environment

Protection during firefighting Self-contained breathing apparatus

Do not enter fire area without proper protective equipment, including respiratory protection

Hazardous decomposition products in case of

fire

Thermal decomposition generates:

Carbon dioxide Carbon monoxide

SECTION 8: Other information

No data available

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SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture
Product name HIT-RE 500 V3
UN-No. (ADR) 1759
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

Use of the substance/mixture Composite mortar component for fasteners in the construction industry

Recommended use For professional use only

1.4. Supplier's details

Supplier

Hilti (South Africa) (Pty) Ltd.

2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and

R101

ZA- 2090 Midrand South Africa

T +2711 237300 - F +2711 2373111

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Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

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DE- 86916 Kaufering Deutschland

T +49 8191 906876

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1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+2711 237300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin corrosion/irritation, Category 1C H314 Calculation method Skin sensitisation, Category 1 H317 Calculation method H341 Germ cell mutagenicity, Category 2 Expert judgment Reproductive toxicity, Category 1B H360 Expert judgment Hazardous to the aquatic environment – Acute Hazard, Category 2 H401 Calculation method Hazardous to the aquatic environment – Chronic Hazard, Category 2 Calculation method H411

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)









Signal word (GHS UN)

Danger

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Hazardous ingredients	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane, Formaldehyde,
	oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol,
	butanedioldiglycidyl ether , 1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-
	(chloromethyl)oxirane
Hazard statements (GHS UN)	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
Precautionary statements (GHS UN)	P262 - Do not get in eyes, on skin, or on clothing.
	P280 - Wear eye protection, protective clothing, protective gloves.
	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, medical attention.
	P337+P313 - If eye irritation persists: Get medical advice, medical 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/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	CAS-No.: 1675-54-3	25 – 40	Flammable liquids Not classified Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment – Acute Hazard, Category 2, H401 Hazardous to the aquatic environment – Chronic Hazard, Category 2, H411
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	CAS-No.: 9003-36-5	10 – 25	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment – Chronic Hazard, Category 2, H411

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Name	Product identifier	%	Classification according to the United Nations GHS
butanedioldiglycidyl ether	CAS-No.: 2425-79-8	5 – 10	Flammable liquids Not classified Acute toxicity (oral), Category 4, H302 Acute toxicity (dermal), Category 4, H312 Acute toxicity (inhal.), Category 4, H332 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 1, H318 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment – Acute Hazard, Category 3, H402 Hazardous to the aquatic environment – Chronic Hazard, Category 3, H412
1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane	CAS-No.: 30499-70-8	5 – 10	Skin corrosion/irritation, Category 1C, H314 Serious eye damage/eye irritation, Category 1, H318 Skin sensitisation, category 1B, H317 Germ cell mutagenicity, Category 2, H341 Reproductive toxicity, Category 1B, H360 Hazardous to the aquatic environment – Chronic Hazard, Category 2, H411
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	CAS-No.: 2530-83-8	2,5 – 5	Acute toxicity (dermal), Category 5, H313 Serious eye damage/eye irritation, Category 1, H318 Hazardous to the aquatic environment – Acute Hazard, Category 3, H402

Full text of H-statements: see section 16

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.

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First-aid measures after ingestion Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency

medical attention.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after skin contact Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact

Causes serious eye irritation.

Potential adverse human health effects and

No additional information available.

symptoms

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

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

5.3. Special protective actions for fire-fighters

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective

equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. After curing, the product can be disposed of with household waste.

6.3. Methods and materials for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local

legislation. Mechanically recover the product. On land, sweep or shovel into suitable

containers. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and

other exposed areas with mild soap and water before eating, drinking or smoking and when

leaving work.

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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.Heat and ignition sourcesKeep away from heat and direct sunlight.

Storage temperature 5 – 25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

No specific measures identified.

general rules of occupational hygiene and safety.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

Other information Do not eat, drink or smoke during use.

8.3. 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

Personal protective equipment symbol(s)







8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste
Colour Light grey.
Odour characteristic.
Odour threshold Not available
Melting point Not available
Freezing point Not available
Boiling point Not available

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Flammability Non flammable. Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Not applicable Auto-ignition temperature Not applicable Decomposition temperature Not available 6.6 pН pH solution Not available Viscosity, kinematic (calculated value) (40 °C) Not applicable

Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50 °C Not available 1,45 g/cm³ Density Not available Relative density Relative vapour density at 20 °C Not applicable Solubility insoluble in water. Viscosity, dynamic 45 - 59 Pa·s 23 °C Particle size Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

2,2'-[(1-methylethylidene)bis(4,1-phenyleneox	ymethylene)]bisoxirane (1675-54-3)	
LD50 oral rat	> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)	
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)		
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; ECHA)	

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Formaldehyde, oligomeric reaction produc	cts with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; ECHA)
butanedioldiglycidyl ether (2425-79-8)	
LD50 oral rat	2980 mg/kg (Rat)
LD50 oral	1163 mg/kg (Rat; Exp. Key study ECHA)
LD50 dermal rabbit	1130 mg/kg (Rabbit)
[3-(2,3-epoxypropoxy)propyl]trimethoxysi	lane (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)
Skin corrosion/irritation	Causes severe skin burns. pH: 6.6
Serious eye damage/irritation	Assumed to cause serious eye damage pH: 6,6
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Suspected of causing genetic defects.
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 symptoms	No additional information available.

SECTION 12: Ecological information

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

acute)

Classification procedure (Hazardous to the aquatic Calculation method environment, short–term (acute))

Hazardous to the aquatic environment, long–term
Toxic to aquatic life with long lasting effects.

(chronic)

Classification procedure (Hazardous to the aquatic Calculation method

environment, long-term (chronic))		
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)	
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	

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40 mg/l
88930 mg/l (96 h; Algae)
ysilane (2530-83-8)
55 mg/l (96 h; Cyprinus carpio; Young)
237 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
473 – 710 mg/l (48 h; Daphnia magna)
119 mg/l (7 days; Anabaena flosaquae)
250 mg/l (72 h; Selenastrum capricornutum)
May cause long-term adverse effects in the environment.
leneoxymethylene)]bisoxirane (1675-54-3)
ducts with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)
0,01982 g O ₂ /g substance
hyl)-, polymer with 2-(chloromethyl)oxirane (30499-70-8)
hyl)-, polymer with 2-(chloromethyl)oxirane (30499-70-8) Not established.

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Bioaccumulative potential Not established.			
2,2'-[(1-methylethylidene)bis(4,1-phenyleneox	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)		
Partition coefficient n-octanol/water (Log Kow)	≥ 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 Kow)	-0,15		
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)			
Partition coefficient n-octanol/water (Log Kow)	-0,92 (Estimated value)		

12.4. Mobility in soil

HIT-RE 500 V3, 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)	
Ecology - soil	No (test)data on mobility of the substance available.	

12.5. Other adverse effects

Ozone

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Not classified



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Other adverse effects Other information

No additional information available Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)

Disposal must be done according to official regulations.

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	IATA	RID		
14.1. UN number or ID number	14.1. UN number or ID number				
UN 1759	UN 1759	UN 1759	UN 1759		
14.2. UN proper shipping nam	e				
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, N.O.S. (trimethylolpropane triglycidylether), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, MARINE POLLUTANT/ENVIRONMENTALL Y HAZARDOUS	UN 1759 Corrosive solid, n.o.s. (trimethylolpropane triglycidylether), 8, III, ENVIRONMENTALLY HAZARDOUS	UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, ENVIRONMENTALLY HAZARDOUS		
14.3. Transport hazard class(e	es)				
8	8	8	8		
8	8		8		
14.4. Packing group					
III	III	III	III		
14.5. Environmental hazards					
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes		
No supplementary information availa	able				

14.6. Special precautions for user

Overland transport

Classification code (ADR)

Special provisions (ADR)

Limited quantities (ADR)

C10

274

5kg

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

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Mixed packing provisions (ADR)

Transport category (ADR)
Orange plates

80 1759

MP10

3

Tunnel restriction code (ADR)

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) 860
PCA max net quantity (IATA) 25kg
CAO packing instructions (IATA) 864
Special provisions (IATA) A3, A803

Rail transport

Special provisions (RID) 274

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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

 SDS Major/Minor
 None

 Issue date
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 13/05/2020

Section	Changed item	Change	Comments
	Legislation	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

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Other information

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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

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.

Full text of H-statements:			
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		
H372	Causes damage to organs through prolonged or repeated exposure		
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		

SDS_UN_Hilti

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

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Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Issue date: 29/09/2022 Revision date: 29/09/2022

Version: 1.7

SECTION 1: Identification

1.1. GHS Product identifier

 Product form
 Mixture

 Product name
 HIT-RE 500 V3

 UN-No. (ADR)
 3259

 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

Use of the substance/mixture Composite mortar component for fasteners in the construction industry

Supersedes: 13/05/2020

Recommended use For professional use only

1.4. Supplier's details

Supplier

Hilti (South Africa) (Pty) Ltd.

2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and

R101

ZA- 2090 Midrand South Africa

T +2711 237300 - F +2711 2373111

Customercare.za@hilti.com

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6

DE- 86916 Kaufering Deutschland

T +49 8191 906876

anchor.hse@hilti.com

1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+2711 237300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 5

Skin corrosion/irritation, Category 1B

Skin sensitisation, Category 1

Specific target organ toxicity – Single exposure, Category 3,

Beautiful toxicity – Single exposure, Category 3,

H335

Calculation method

Calculation method

Respiratory tract irritation

Hazardous to the aquatic environment – Acute Hazard, Category 2 H401 Calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 3 H412 Calculation method

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)





Signal word (GHS UN)

Hazardous ingredients 2-methyl-1,5-pentanediamine, Phenol, styrenated, m-Xylylenediamine, 2,4,6-

tris(dimethylaminomethyl)phenol, 3-Aminopropyltriethoxysilan

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Hazard statements (GHS UN)	H314 - Causes severe skin burns and eye damage
	H317 - May cause an allergic skin reaction
	H335 - May cause respiratory irritation
	H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS UN)	P262 - Do not get in eyes, on skin, or on clothing.
	P280 - Wear eye protection, protective clothing, protective gloves.
	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, medical attention.
	P337+P313 - If eye irritation persists: Get medical advice, medical 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/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
2-methyl-1,5-pentanediamine	CAS-No.: 15520-10-2	25 – 35	Flammable liquids, Category 4, H227 Acute toxicity (oral), Category 4, H302 Acute toxicity (dermal), Category 4, H312 Acute toxicity (inhalation:dust,mist) Category 4, H332 Skin corrosion/irritation, Category 1A, H314 Serious eye damage/eye irritation, Category 1, H318 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation, H335
Phenol, styrenated	CAS-No.: 61788-44-1	5 – 10	Flammable liquids Not classified Acute toxicity (inhalation:dust,mist) Not classified Skin corrosion/irritation, Category 2, H315 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment – Acute Hazard, Category 1, H400 Hazardous to the aquatic environment – Chronic Hazard, Category 2, H411

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Name	Product identifier	%	Classification according to the United Nations GHS
m-Xylylenediamine	CAS-No.: 1477-55-0	5 – <8	Acute toxicity (oral), Category 4, H302 Acute toxicity (inhalation:dust,mist) Category 4, H332 Skin corrosion/irritation, Category 1B, H314 Serious eye damage/eye irritation, Category 1, H318 Skin sensitisation, category 1B, H317 Hazardous to the aquatic environment – Acute Hazard, Category 3, H402 Hazardous to the aquatic environment – Chronic Hazard, Category 3, H412
2,4,6-tris(dimethylaminomethyl)phenol	CAS-No.: 90-72-2	1 – 2,5	Flammable liquids Not classified Acute toxicity (oral), Category 4, H302 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Hazardous to the aquatic environment – Acute Hazard, Category 3, H402
3-Aminopropyltriethoxysilan	CAS-No.: 919-30-2	1 – 2,5	Flammable liquids, Category 4, H227 Acute toxicity (oral), Category 4, H302 Acute toxicity (dermal), Category 5, H313 Skin corrosion/irritation, Category 1B, H314 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment – Acute Hazard Not classified

Full text of H-statements: see section 16

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.

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according to the United Nations GHS (Rev. 9, 2021)

First-aid measures after eye contact Get immediate medical advice/attention. Immediately rinse with water for a prolonged period

while holding the eyelids wide open. Remove contact lenses, if present and easy to do.

Continue rinsing. Consult an eye specialist.

First-aid measures after ingestion Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects Causes severe skin burns and eye damage.

Symptoms/effects after skin contact May cause an allergic skin reaction.

Symptoms/effects after eye contact Causes serious eye damage.

Potential adverse human health effects and No additional information available.

symptoms

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

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

5.3. Special protective actions for fire-fighters

Firefighting instructions

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Self-contained breathing apparatus. Do not enter fire area without proper protective

equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. After curing, the product can be disposed of with household waste.

6.3. Methods and materials for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local

legislation. Mechanically recover the product. On land, sweep or shovel into suitable

containers. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site.

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according to the United Nations GHS (Rev. 9, 2021)

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

Incompatible materials

Strong bases. Strong acids.

Sources of ignition. Direct sunlight.

Keep away from heat and direct sunlight.

Storage temperature 5 – 25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.

Environmental exposure controls

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

general rules of occupational hygiene and safety.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

Other information

Do not eat, drink or smoke during use.

8.3. 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

Personal protective equipment symbol(s)







8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Solid

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according to the United Nations GHS (Rev. 9, 2021)

Appearance Thixotropic paste

Colour red. Odour Amine-like. Odour threshold Not available Melting point Not available Freezing point Not available **Boiling point** Not available Flammability Non flammable. Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Not applicable Not applicable Auto-ignition temperature Decomposition temperature Not available

pH 11,5

Not available pH solution Viscosity, kinematic (calculated value) (40 °C) Not applicable Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50 °C Not available Density 1,31 g/cm³ Relative density Not available Not applicable Relative vapour density at 20 °C insoluble in water. Solubility Viscosity, dynamic 50 - 70 Pa·s HN-0333

Particle size Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

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HIT-RE 500 V3, B			
ATE UN (oral)	2842,757 mg/kg bodyweight		
2-methyl-1,5-pentanediamine (15520-10-2	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		
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)		
LD50 oral rat	2169 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 2169 mg/kg bodyweight; Rat; Experimental value)		
LD50 dermal rat	> 2000 mg/kg (Rat; Literature study; Other; >1 ml/kg; Rat; Experimental value)		
3-Aminopropyltriethoxysilan (919-30-2)			
LD50 oral rat	1,57 – 2,83 ml/kg (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral)		
LD50 dermal rabbit	4,29 ml/kg (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal)		
LC50 Inhalation - Rat [ppm]	> 5 ppm (OECD 403: Acute Inhalation Toxicity, 6 h, Rat, Male, Experimental value, Inhalation (vapours))		
Skin corrosion/irritation	Causes severe skin burns.		
Serious eye damage/irritation	pH: 11,5 Assumed to cause serious eye damage pH: 11,5		
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 2-methyl-1,5-pentanediamine (15520-10-2	May cause respiratory irritation.		
STOT reported exposure	May cause respiratory irritation.		
STOT-repeated exposure	Not classified		
Aspiration hazard Potential adverse human health effects and	Not classified No additional information available.		
	INO AUGUNOTIAI ITTOTTIAUOTI AVAIIADIO.		

SECTION 12: Ecological information

12.1. Toxicity

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

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Hazardous to the aquatic environment, short-term

(acute)

Classification procedure (Hazardous to the aquatic environment, short-term (acute))

Hazardous to the aquatic environment, long-term (chronic)

Classification procedure (Hazardous to the aquatic

Toxic to aquatic life.

Calculation method

Harmful to aquatic life with long lasting effects.

Calculation method

Classification procedure (Hazardous to the aquat environment, long-term (chronic))	ic Calculation method		
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		
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		
Threshold limit - Algae [1]	0,326 mg/l (72 h; Algae)		
Threshold limit - Algae [2]	0,14 mg/l (72 h; Algae)		
m-Xylylenediamine (1477-55-0)			
LC50 - Fish [1]	75 mg/l		
LC50 - Other aquatic organisms [1]	20,3 ppb		
EC50 - Crustacea [1]	15 mg/l		
LOEC (chronic)	15 mg/l		
NOEC (acute)	10,5 mg/kg		
NOEC (chronic)	4,7 mg/l		
NOEC chronic crustacea	4,7 mg/l		
2,4,6-tris(dimethylaminomethyl)phenol	(90-72-2)		
LC50 - Fish [1]	> 100 mg/l (96 h; Pisces; Nominal concentration)		
LC50 - Fish [2]	70,9 mg/l (96 h; Pisces)		
EC50 - Other aquatic organisms [1]	84 mg/l (72 h; Desmodesmus subspicatus; growth rate; ECHA)		
ErC50 algae	84 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, GLP)		
NOEC (chronic)	2 mg/l (28 d; activated sludge, domestic; respiration rate; ECHA)		
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)		

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(Log Koc)

HIT-RE 500 V3, B

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12.2. Persistence and degradability HIT-RE 500 V3, B		
· · · · · · · · · · · · · · · · · · ·	Manager Land American Control of the continuous of	
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		
3-Aminopropyltriethoxysilan (919-30-2)		
Persistence and degradability	Not readily biodegradable in water.	
12.3. Bioaccumulative potential		
HIT-RE 500 V3, B		
Bioaccumulative potential	Not established.	
2-methyl-1,5-pentanediamine (15520-10-2)		
Partition coefficient n-octanol/water (Log Kow)	0,27 (Estimated value)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).	
Phenol, styrenated (61788-44-1)		
BCF - Fish [1]	3246 l/kg (BCFBAF v3.01, Pisces, Fresh water, Weight of evidence, Fresh weight)	
BCF - Fish [2]	3246 mg/l	
Partition coefficient n-octanol/water (Log Kow)	6,24 – 7,77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow Stirring Method)	
Bioaccumulative potential	Bioaccumulative potential.	
2,4,6-tris(dimethylaminomethyl)phenol (90-7	72-2)	
Partition coefficient n-octanol/water (Log Kow)	0,77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 °C)	
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 Kow)	1,7 (QSAR, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
12.4. Mobility in soil		
HIT-RE 500 V3, B		
Mobility in soil	No additional information available	
Phenol, styrenated (61788-44-1)		
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	72-2)	
Organic Carbon Normalized Adsorption Coefficient	1,32 (log Koc, Calculated value)	

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2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)		
Ecology - soil Highly mobile in soil.		
3-Aminopropyltriethoxysilan (919-30-2)		
Ecology - soil No (test)data on mobility of the substance available.		

12.5. Other adverse effects

Ozone Not classified

Other adverse effects

No additional information available
Other information

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste) Disposal must be done according to official regulations.

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	IATA	RID
14.1. UN number			
UN 3259	UN 3259	UN 3259	UN 3259
14.2. UN proper shipping name	е		
AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5- pentanediamine, m- Xylylenediamine)	AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5- pentanediamine, m- Xylylenediamine)	Amines, solid, corrosive, n.o.s. (2- methyl-1,5-pentanediamine, m- Xylylenediamine)	AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5- pentanediamine, m- Xylylenediamine)
Transport document description			
UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl- 1,5-pentanediamine, m- Xylylenediamine), 8, II, (E)	UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl- 1,5-pentanediamine, m- Xylylenediamine), 8, II	UN 3259 Amines, solid, corrosive, n.o.s. (2-methyl-1,5- pentanediamine, m- Xylylenediamine), 8, II	UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl- 1,5-pentanediamine, m- Xylylenediamine), 8, II
14.3. Transport hazard class(e	es)		
8	8	8	8
8	8		8
14.4. Packing group			
II	II	II	II
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No

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ADR	IMDG	IATA	RID
No supplementary information available			

14.6. Special precautions for user

Overland transport

Classification code (ADR)

Special provisions (ADR)

Limited quantities (ADR)

C8

274

1kg

Packing instructions (ADR) P002, IBC08
Mixed packing provisions (ADR) MP10

Transport category (ADR) 2
Orange plates

80 3259

Tunnel restriction code (ADR)

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. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

 SDS Major/Minor
 None

 Issue date
 29/09/2022

 Revision date
 29/09/2022

 Supersedes
 13/05/2020

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Section	Changed item	Change	Comments
	Legislation	Modified	

Abbreviations and acronyms

Other information

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

BCF - Bioconcentration factor

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

DMEL - Derived Minimal Effect level

DNEL - Derived-No Effect Level

IATA - International Air Transport Association

EC50 - Median effective concentration

IMDG - International Maritime Dangerous Goods

LC50 - Median lethal concentration

LD50 - Median lethal dose

LOAEL - Lowest Observed Adverse Effect Level

NOAEC - No-Observed Adverse Effect Concentration

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration PBT - Persistent Bioaccumulative Toxic

PNEC - Predicted No-Effect Concentration

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety Data Sheet

vPvB - Very Persistent and Very Bioaccumulative

None.

Full text of H-statements:		
H227	Combustible liquid	
H302	Harmful if swallowed	
H303	May be 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	
H335	May cause respiratory irritation	
H400	Very toxic to aquatic life	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	

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Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)

Full text of H-statements:	
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS_UN_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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