

HIT-RE 500 V4

Safety information for 2-Component-products

Issue date: 03/02/2025

Revision date: 03/02/2025

Supersedes: 11/11/2020

Version: 2.1

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 Far East Private Ltd. 80 Pasir Panjang Road, #16-83/84 Mapletree Business City 117372 Singapore - Singapur T +65 6777 7887 - F +65 6777 3057 sg-customerservice@hilti.com

SECTION 2: General information

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

Skin corrosion/irritation, Category 1B Serious eye damage/eye irritation, Category 1

GHS07

H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation

Hazardous to the aquatic environment - Chronic Hazard, Category 2

GHS09

Skin sensitisation, Category 1

GHS05

Epoxy resin, Amines

Danger

SECTION 3: Kit contents

Classification of the Product

GHS SG classification

Health hazards

Environmental hazards

Label elements

GHS SG labelling

Hazard pictograms (GHS SG)

Signal word (GHS SG) Hazardous ingredients Hazard statements (GHS SG)

04/02/2025



HIT-RE 500 V4

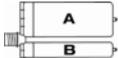
Safety information for 2-Component-products

	H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (GHS SG)	 P280 - Wear eye protection, protective clothing, protective gloves. P262 - Do not get in eyes, on skin, or on clothing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of water. P337+P313 - If eye irritation persists: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Additional information

2-component-foilpack, contains:

Component A: Epoxy resin, Reactive diluent, inorganic filler Component B: Amine hardener, inorganic filler



Name	General description	Quantity	Unit	GHS SG classification
HIT-RE 500 V4, A		1	pcs (pieces)	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
HIT-RE 500 V4, B		1	pcs (pieces)	Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335

SECTION 4: General advice

General advice

For professional users only

SECTION	5. Safe har	ndling advice
SECTION	J. Jaie Ilai	iuning auvice

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
Incompatible products	Strong bases Strong acids



HIT-RE 500 V4

Safety information for 2-Component-products

SECTION 6: First aid measures

Get immediate medical advice/attention. Immediately rinse with water for a prolonged period while holding the eyelids wide open Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist
Do not induce vomiting Rinse mouth Immediately call a POISON CENTER/doctor.
Remove person to fresh air and keep comfortable for breathing.
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 If you feel unwell, seek medical advice (show the label where possible)
Causes severe skin burns and eye damage.
Causes serious eye damage.
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



Safety Data Sheet

According to SS 586 Part 3 (2022) Issue date: 03.02.2025 Revision date: 03.02.2025

Supersedes: 11.11.2022

Version: 2.1

SECTION 1: Identification			
1.1. Product identifier			
Name	HIT-RE 500 V4, A		
Product code	BU Anchor		
1.2. Other means of identification			
No additional information available			
1.3. Recommended use of the chemical and r	1.3. Recommended use of the chemical and restrictions on use		
Recommended use	For professional use only		
1.4. Supplier's details			
Supplier Hilti Far East Private Ltd. 80 Pasir Panjang Road, #16-83/84 Mapletree Busines: Singapur 117372 T +65 6777 7887 - F +65 6777 3057 sg-customerservice@hilti.com	s City Singapore Hiltistraße 6 Kaufering Deutschland 86916 T +49 8191 906876 product.compliance-anchors@hilti.com		
1.5. Emergency phone number			
Emergency number	GBK GmbH Global Regulatory Compliance +49 (0)6132-84463		

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Health hazards

Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Skin sensitisation. Category 1 Hazardous to the aquatic environment - Chronic Hazard, Category 2

Environmental hazards

2.2. GHS label elements, including precautionary statements

Hazard pictograms (GHS SG)



Signal word (GHS SG)

Hazard statements (GHS SG)

H315 : Causes skin irritation

H317 : May cause an allergic skin reaction

H318 : Causes serious eye damage

H411 : Toxic to aquatic life with long lasting effects

Precautionary statements

Prevention

P280 : Wear eye protection, protective clothing, protective gloves.

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

Response

P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P337+P313 : If eye irritation persists: Get medical advice/attention.

P302+P352 : IF ON SKIN: Wash with plenty of soap and water.

2.3. Other hazards which do not result in classification



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According to SS 586 Part 3 (2022)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Synonyms	Concentration (%)	Formula	Product identifier
Formaldehyde, oligomeric reaction products with 1- chloro-2,3-epoxypropane and phenol	-	10 – 25	(C6H6O.C3H 5CIO.CH2O)x	CAS-No.: 9003-36-5 EC-No.: 500-006-8
Trimethylolethantriglycidylether	-	5 – 10	-	CAS-No.: 68460-21-9
butanedioldiglycidyl ether	1,4-bis(2,3 epoxypropoxy)butane / 1,4-bis(2,3- epoxypropyloxy)butane / 1,4-bis(glycidyloxy)butane	5 – 10	C10H18O4	CAS-No.: 2425-79-8 EC-No.: 219-371-7 EC Index-No.: 603- 072-00-7
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	((3- (trimethoxysilyl)propoxy)m ethyl)oxirane / [3-(2,3- epoxypropoxy)propyl]trim ethoxysilane / 1- (glycidyloxy)-3- (trimethoxysilyl)propane	2.5 – 5	C9H20O5Si	CAS-No.: 2530-83-8 EC-No.: 219-784-2

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). Inhalation Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest. Skin contact Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get immediate medical advice/attention. Eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. Ingestion Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention. 4.2. Most important symptoms/effects, acute and delayed Symptoms/effects after skin contact Causes skin irritation. May cause an allergic skin reaction. Symptoms/effects after eye contact Causes serious eye irritation.

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

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.	



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According to SS 586 Part 3 (2022)

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.
	equipment, including respiratory protection.
SECTION 6: Accidental relea	

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 Emergency procedures	Use personal protective equipment as required. Equip cleanup crew with proper protection. 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 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.	
Other information	Dispose of materials or solid residues at an authorized site.	

SECTION 7: Handling and s	torage
7.1. Precautions for safe handling	
Precautions for safe handling	Wear personal protective equipment. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	Protect from sunlight.
Incompatible products	Strong bases. Strong aside

Incompatible products Incompatible materials Storage temperature Heat and ignition sources Protect from sunlight. Strong bases. Strong acids. Sources of ignition. Direct sunlight. $5 - 25 \ ^{\circ}C$ Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits

No additional information available

8.2. Appropriate engineering control measures

Appropriate engineering controls

No specific measures identified.

8.3. Personal protection – individual protecti	on measures, such as personal protective equipment (PPE)
Materials for protective clothing	Long sleeved protective clothing



Hand protection

HIT-RE 500 V4, A

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According to SS 586 Part 3 (2022)

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	Thickn	iess (mm)	Penetration		Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,2				EN ISO 374
Eye protection Wear security glasses which protect from splashes							
Type Fie		Field of application		Characteristic	s	Standa	ard
Safety glasses		Droplet		clear		EN 166	6, EN 170

Personal protective equipment symbol(s)



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

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and chem	ical properties
Physical state	Solid
Appearance	Thixotropic paste.
Colour	Light grey
Odour	characteristic
Odour threshold	No data available
рН	6.6
Relative evaporation rate (butylacetate=1)	No data available
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	1.45 g/cm ³
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, dynamic	45 – 59 Pa∙s 23 °C
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available
Particle size	No data available
Particle size distribution	No data available
Particle shape	No data available
Particle aspect ratio	No data available
Particle specific surface area	No data available

9.2. Other information



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According to SS 586 Part 3 (2022)

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	on
11.1. Acute toxicity	
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
butanedioldiglycidyl ether (2425-79-8)	
LD50 oral rat	2980 mg/kg (Rat)
LD50 oral	1163 mg/kg (Rat; Exp. Key study ECHA)
LD50 dermal rat	> 2150 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 7 day(s))
LD50 dermal rabbit	1130 mg/kg (Rabbit)
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	e (2530-83-8)
LD50 oral rat	8025 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	4250 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
Formaldehyde, oligomeric reaction products	with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; ECHA)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; ECHA)
Skin corrosion/irritation	Causes skin irritation.
	pH: 6.6
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
HIT-RE 500 V4, A	
Density	1.45 g/cm ³



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According to SS 586 Part 3 (2022)

Potential adverse human health effects and symptoms

No additional information available.

12.1. Toxicity	
Ecology - water	Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Toxic to aquatic life with long lasting effects.
Other information	Avoid release to the environment.
Trimethylolethantriglycidylether (68460-21-9	
butanedioldiglycidyl ether (2425-79-8)	
LC50 - Fish [1]	24 mg/l (96 h; Pisces) ECHA
LC50 - Other aquatic organisms [1]	> 160 mg/l
NOEC (acute)	40 mg/l
Partition coefficient n-octanol/water (Log Pow)	-0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Threshold limit - Algae [1]	88930 mg/l (96 h; Algae)
[3-(2,3-epoxypropoxy)propyl]trimethoxysila	ne (2530-83-8)
LC50 - Fish [1]	55 mg/l (96 h; Cyprinus carpio; Young)
LC50 - Fish [2]	237 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 - Crustacea [1]	473 – 710 mg/l (48 h; Daphnia magna)
Partition coefficient n-octanol/water (Log Pow)	-0.92 (Estimated value)
Threshold limit - Algae [1]	119 mg/l (7 days; Anabaena flosaguae)
Threshold limit - Algae [2]	250 mg/l (72 h; Selenastrum capricornutum)

12.2. Persistence and degradability

HIT-RE 500 V4, A		
Persistence and degradability May cause long-term adverse effects in the environment.		
butanedioldiglycidyl ether (2425-79-8)		
Biochemical oxygen demand (BOD) 0.01982 g O ₂ /g substance		
12.3. Bioaccumulative potential		
HIT-RE 500 V4, A		
Bioaccumulative potential	Not established.	



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According to SS 586 Part 3 (2022)

butanedioldiglycidyl ether (2425-79-8)			
Partition coefficient n-octanol/water (Log Pow)	-0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)		
[3-(2,3-epoxypropoxy)propyl]trimethoxysilan	e (2530-83-8)		
Partition coefficient n-octanol/water (Log Pow)	-0.92 (Estimated value)		
12.4. Mobility in soil			
HIT-RE 500 V4, A			
Mobility in soil	No additional information available		
butanedioldiglycidyl ether (2425-79-8)			
Surface tension	44.4 mN/m (20 °C, 90 %, EU Method A.5: Surface tension)		
Partition coefficient n-octanol/water (Log Pow)	-0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)		
Ecology - soil	Highly mobile in soil.		
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)			
Partition coefficient n-octanol/water (Log Pow)	-0.92 (Estimated value)		
12.5. Other adverse effects			
Ozone	Not classified		
Other adverse effects	No additional information available		

SECTION 13: Disposal considerations

Product/Packaging disposal recommendations

After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	ΙΑΤΑ	RID
Special provision(s) applied : 375	Special provision(s) applied : 969	Special provision(s) applied : A197	Special provision(s) applied : 375
These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.			
14.1. UN number or ID number			
UN 3077	UN 3077	UN 3077	UN 3077



Safety Data Sheet

According to SS 586 Part 3 (2022)

ADR	IMDG	ΙΑΤΑ	RID
14.2. UN proper shipping nam	e		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxiran e; Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxiran e ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol)	Environmentally hazardous substance, solid, n.o.s. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxiran e ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxiran e ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3 epoxypropane and phenol)
Transport document description			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxiran e; Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxiran e ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol), 9, III	UN 3077 Environmentally hazardous substance, solid, n.o.s. (2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxiran e; Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1- methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirar e; Formaldehyde, oligomeric reaction products with 1-chloro-2,3 epoxypropane and phenol), 9, III
14.3. Transport hazard class(e	s)		
9	9	9	9
14.4. Packing group			
=	III	111	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
-	ces derogation applies (quantity of liq ore not required, as stated in the ADF	uids \leq 5 litres or net mass of solids \leq 8 regulation, section 5.2.1.8.1.	5 kg). The environmentally
not restricted according ADR Specia	Provision SP375, IATA-DGR Specia	al Provision A197 and IMDG-Code 2.	10.2.7

Overland transport

Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Packing instructions (ADR) Mixed packing provisions (ADR) Transport category (ADR) Orange plates M7 274, 335, 375, 601 5kg P002, IBC08, LP02, R001 MP10 3 **90**

3077

Tunnel restriction code (ADR)



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According to SS 586 Part 3 (2022)

Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Packing instructions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Stowage and handling (IMDG) MFAG-No	274, 335, 966, 967, 969 5 kg LP02, P002 F-A S-F A SW23 171
Air transport PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) Special provisions (IATA)	956 400kg 956 A97, A158, A179, A197, A215
Rail transport Special provisions (RID) Limited quantities (RID) Packing instructions (RID)	274, 335, 375, 601 5kg P002, IBC08, LP02, R001

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question Regulation **Component / Mixture** Arms and Explosives Act Not applicable Chemical Weapons Prohibition Act Environmental Protection and Management (Air Impurities) Regulations Environmental Protection and Management Act (Hazardous Substances) Environmental Public Health (Quality of Piped Drinking Water) Regulations Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations Misuse of Drugs Act Poisons Act **Poisons Rules** Hazardous waste (Control of export, import and transit) Act Strategic goods (Control) Act

15.2. International regulations



Safety Data Sheet

According to SS 586 Part 3 (2022)

15.3 Chemical inventory status

No additional information available

SECTION 16: Other information	
Issue date	03/02/2025
Revision date	03/02/2025
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.

Indication of changes				
Section Changed item Change Comments				
15	Regulations Singapore	Modified		

SDS_SG_Hilti

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



Safety Data Sheet

According to SS 586 Part 3 (2022) Issue date: 03.02.2025 Revision date: 03.02.2025

Supersedes: 11.11.2022

Version: 1.2

SECTION 1: Identification	
1.1. Product identifier	
Name	HIT-RE 500 V4, B
Product code	BU Anchor
1.2. Other means of identification	
No additional information available	
1.3. Recommended use of the chemical and r	estrictions on use
Recommended use	For professional use only
1.4. Supplier's details	
Supplier	Department issuing data specification sheet
Hilti Far East Private Ltd.	Hilti Entwicklungsgesellschaft mbH
80 Pasir Panjang Road, #16-83/84 Mapletree Busines	s City Singapore Hiltistraße 6 Kaufering Deutschland 86916
Singapur 117372	T +49 8191 906876
T +65 6777 7887 - F +65 6777 3057	product.compliance-anchors@hilti.com
sg-customerservice@hilti.com	
1.5. Emergency phone number	
Emergency number GBK GmbH Global Regulatory Compliance	
	+49 (0)6132-84463

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Health hazards

Skin corrosion/irritation, Category 1B Skin sensitisation, Category 1 Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation

2.2. GHS label elements, including precautionary statements

Hazard pictograms (GHS SG)



Signal word (GHS SG)

Hazard statements (GHS SG)

H314 : Causes severe skin burns and eye damage H317 : May cause an allergic skin reaction H335 : May cause respiratory irritation

Precautionary statements

Prevention

P280 : Wear eye protection, protective clothing, protective gloves.

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

Response

P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313 : If skin irritation or rash occurs: Get medical advice/attention. P337+P313 : If eye irritation persists: Get medical advice/attention. P302+P352 : IF ON SKIN: Wash with plenty of soap and water.

2.3. Other hazards which do not result in classification



HIT-RE 500 V4, B Safety Data Sheet

According to SS 586 Part 3 (2022)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Synonyms	Concentration (%)	Formula	Product identifier
2-methyl-1,5-pentanediamine	1,5-diamino-2- methylpentane / 1,5- pentanediamine, 2- methyl-	25 – 35	C6H16N2	CAS-No.: 15520-10-2 EC-No.: 239-556-6
Phenol, styrenated	Phenol, styrenated / Wingstay S	5 – 10	-	CAS-No.: 61788-44-1 EC-No.: 262-975-0
m-Xylylenediamine	-	4 - <8	C8H12N2	CAS-No.: 1477-55-0 EC-No.: 216-032-5
2,4,6-tris(dimethylaminomethyl)phenol	2,4,6- tris(dimethylaminomethyl) phenol / tris-2,4,6- (dimethylaminomethyl)ph enol	1 – 3	C15H27N3O	CAS-No.: 90-72-2 EC-No.: 202-013-9 EC Index-No.: 603- 069-00-0
3-Aminopropyltriethoxysilan	-	1 – 3	C9H23NO3Si	CAS-No.: 919-30-2 EC-No.: 213-048-4 EC Index-No.: 612- 108-00-0

SECTION 4: First-aid measures			
4.1. Description of necessary first aid mea	asures		
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).		
Inhalation	Remove person to fresh air and keep comfortable for breathing.		
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.		
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.		
Ingestion	Do not induce vomiting. Rinse mouth. Immediately call a POISON CENTER/doctor.		
4.2. Most important symptoms/effects, acute and delayed			
Symptoms/effects	Causes severe skin burns and eye damage.		
Symptoms/effects after skin contact	May cause an allergic skin reaction.		
Symptoms/effects after eye contact	Causes serious eye damage.		

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	Foam. Dry pov
Unsuitable extinguishing media	Do not use a h

bam. Dry powder. Carbon dioxide. Water spray. Sand. o not use a heavy water stream.

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According to SS 586 Part 3 (2022)

Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.
5.3. Special protective actions for fire fighte	rs
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 mea	sures
6.1. Personal precautions, protective equip	ment and emergency procedures
Conoral magauroa	Spilled meterial may present a clipping bezord

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	

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

SECTION 7: Handling and storage 7.1. Precautions for safe handling

in the sale 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, in	ncluding any incompatibilities
Technical measures	Comply with applicable regulations.
Storage conditions	Protect from sunlight. Store in a well-ventilated place.
Incompatible products	Strong bases. Strong acids.

Incompatible materials Storage temperature Heat and ignition sources

Sources of ignition. Direct sunlight. 5 – 25 °C Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits



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According to SS 586 Part 3 (2022)

HIT-RE 500 V4, B		
Singapore - Occupational Exposure Limits		
Local name	Aluminium oxide	
PEL (OEL TWA)	10 mg/m ³	
Regulatory reference	WSH (General Provision) Regulation 2014	

8.2. Appropriate engineering control measures

Appropriate engineering controls

Ensure good ventilation of the work station.

T		Barren e dia m		B ()	Otan dan d
	substances may shorten the protective function's effective duration.				
		speaking, it must be reduced. Contact with either mixtures of substances or different			
Hand protection		Wear protective gloves. The permeation time is not the maximum wearing time! Generally			
Materials for protective clot	hing	Long sleeved protective	e clothing		
8.3. Personal protection – individual protection measures, such as personal protective equipment (PPE)					

Туре	Material	Permeation	Thickn	iess (mm)	Penetration		Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,2				EN ISO 374
Eye protection Wear security glasses which protect from splashes							
Туре		Field of application		Characteristic	tics Standard		
Safety glasses		Droplet		clear		EN 166	6, EN 170

Personal protective equipment symbol(s)



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

9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Thixotropic paste.
Colour	red
Odour	Amine-like
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Evaporation rate	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	Not applicable
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	1.31 g/cm ³
Solubility	insoluble in water.



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Partition coefficient n-octanol/water (Log Pow) Partition coefficient n-octanol/water (Log Kow) Viscosity, dynamic Explosive properties Oxidising properties Explosive limits Particle size Particle size distribution Particle shape Particle aspect ratio Particle specific surface area No data available No data available 50 – 70 Pa·s HN-0333 No data available No data available

9.2. Other information

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.

tion			
Not classified			
Not classified			
Not classified			
2-methyl-1,5-pentanediamine (15520-10-2)			
1690 mg/kg (Rat)			
1170 mg/kg (Rat)			
4.9 mg/l			
> 2500 mg/kg			
> 2000 mg/kg			
158.31 mg/l/4h			
930 mg/kg			
> 3100 mg/kg			

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According to SS 586 Part 3 (2022)

m-Xylylenediamine (1477-55-0)	
D50 dermal	> 3100 mg/kg
C50 Inhalation - Rat (Dust/Mist)	1.34 mg/l/4h
2,4,6-tris(dimethylaminomethyl)phenol (9	90-72-2)
D50 oral rat	2169 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 2169 mg/kg bodyweight; Rat; Experimental value)
D50 dermal rat	> 2000 mg/kg (Rat; Literature study; Other; >1 ml/kg; Rat; Experimental value)
3-Aminopropyltriethoxysilan (919-30-2)	
D50 oral rat	1.57 – 2.83 ml/kg (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral)
_D50 oral	1570 mg/kg
D50 dermal rabbit	4.29 ml/kg (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal
D50 dermal	4290 mg/kg
C50 Inhalation - Rat [ppm]	> 5 ppm (OECD 403: Acute Inhalation Toxicity, 6 h, Rat, Male, Experimental value, Inhalation (vapours))
-C50 Inhalation - Rat (Dust/Mist)	7.35 mg/l/4h
Skin corrosion/irritation	Causes severe skin burns.
Serious eye damage/irritation	Assumed to cause 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.
2-methyl-1,5-pentanediamine (15520-10-2)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
HIT-RE 500 V4, B	
Density	1.31 g/cm ³
Potential adverse human health effects and	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	Not classified
(acute)	
Hazardous to the aquatic environment, long-term	Not classified
(chronic)	
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)



Safety Data Sheet According to SS 586 Part 3 (2022)

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]	0.33 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): Slov Stirring Method)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Threshold limit - Algae [1]	0.326 mg/l (72 h; Algae)
Threshold limit - Algae [2]	0.14 mg/l (72 h; Algae)
m-Xylylenediamine (1477-55-0)	
LC50 - Fish [1]	75 mg/l
LC50 - Other aquatic organisms [1]	20.3 ppb
EC50 - Crustacea [1]	15 mg/l
LOEC (chronic)	15 mg/l
NOEC (acute)	10.5 mg/kg
NOEC (chronic)	4.7 mg/l
NOEC chronic crustacea	4.7 mg/l
2,4,6-tris(dimethylaminomethyl)phenol (90-7	2-2)
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, Stati system, Fresh water, Experimental value, GLP)
NOEC (chronic)	2 mg/l (28 d; activated sludge, domestic; respiration rate; ECHA)
Partition coefficient n-octanol/water (Log Pow)	0.77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.32 (log Koc, Calculated value)
Threshold limit - Algae [1]	10 - 100,Algae
Threshold limit - Algae [2]	84 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
3-Aminopropyltriethoxysilan (919-30-2)	
	> 934 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Semi-static
LC50 - Fish [1]	system, Fresh water, Experimental value, GLP)



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3-Aminopropyltriethoxysilan (919-30-2)	
ErC50 algae	> 1000 mg/l (EU Method C.3, 72 h, Scenedesmus subspicatus, Static system, Fresh water, Experimental value, GLP)
BCF - Fish [1]	3.4 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.7 (QSAR, 20 °C)
12.2. Persistence and degradability	
HIT-RE 500 V4, B	
Persistence and degradability	May cause long-term adverse effects in the environment.
Phenol, styrenated (61788-44-1)	
Biochemical oxygen demand (BOD)	0.000231 g O ₂ /g substance
Chemical oxygen demand (COD)	0.004827 g O ₂ /g substance
3-Aminopropyltriethoxysilan (919-30-2)	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.
12.3. Bioaccumulative potential	
HIT-RE 500 V4, B	
Bioaccumulative potential	Not established.
2-methyl-1,5-pentanediamine (15520-10-2)	
Partition coefficient n-octanol/water (Log Pow)	0.27 (Estimated value)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
Phenol, styrenated (61788-44-1)	
BCF - Fish [1]	3246 l/kg (BCFBAF v3.01, Pisces, Fresh water, Weight of evidence, Fresh weight)
BCF - Fish [2]	3246 mg/l
Partition coefficient n-octanol/water (Log Pow)	6.24 – 7.77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow- Stirring Method)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Bioaccumulative potential	Bioaccumulative potential.
2,4,6-tris(dimethylaminomethyl)phenol (90-7	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)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
3-Aminopropyltriethoxysilan (919-30-2)	
BCF - Fish [1]	3.4 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.7 (QSAR, 20 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).



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12.4. Mobility in soil				
HIT-RE 500 V4, B				
Mobility in soil	No additional information available			
2-methyl-1,5-pentanediamine (15520-10-2)				
Partition coefficient n-octanol/water (Log Pow)	0.27 (Estimated value)			
Phenol, styrenated (61788-44-1)				
Surface tension	48.45 mN/m (20 °C, 90 %, OECD 115: Surface Tension of Aqueous Solutions)			
Partition coefficient n-octanol/water (Log Pow)	6.24 – 7.77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow- Stirring Method)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)			
Ecology - soil	Low potential for mobility in soil.			
2,4,6-tris(dimethylaminomethyl)phenol (90-7	2-2)			
Surface tension	No data available in the literature			
Partition coefficient n-octanol/water (Log Pow)	0.77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 °C)			
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.32 (log Koc, Calculated value)			
Ecology - soil	Highly mobile in soil.			
3-Aminopropyltriethoxysilan (919-30-2)				
Partition coefficient n-octanol/water (Log Pow)	1.7 (QSAR, 20 °C)			
Ecology - soil	No (test)data on mobility of the substance available.			
12.5. Other adverse effects				
Ozone Other adverse effects	Not classified 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.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	ΙΑΤΑ	RID		
14.1. UN number or ID number	14.1. UN number or ID number				
UN 3259	UN 3259	UN 3259	UN 3259		
14.2. UN proper shipping nam	14.2. UN proper shipping name				
AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5- pentanediamine, m- Xylylenediamine)	AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5- pentanediamine, m- Xylylenediamine)	Amines, solid, corrosive, n.o.s. (2- methyl-1,5-pentanediamine, m- Xylylenediamine)	AMINES, SOLID, CORROSIVE, N.O.S. (2-methyl-1,5- pentanediamine, m- Xylylenediamine)		



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ADR	IMDG	ΙΑΤΑ	RID	
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(es)				
8	8	8	8	
B	B	8	B	
14.4. Packing group				
II	II	II	II	
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	
No supplementary information availa	able			
14.6. Special precautions for u	lser			
Overland transport				
Classification code (ADR) Special provisions (ADR)	C8 274			

1kg P002, IBC08

MP10 2

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80

3259

Classification code (ADR)
Special provisions (ADR)
Limited quantities (ADR)
Packing instructions (ADR)
Mixed packing provisions (ADR)
Transport category (ADR)
Orange plates

Tunnel restriction code (ADR)

Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Packing instructions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No	274 1 kg P002 F-A S-B A 154
Air transport PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) Special provisions (IATA)	859 15kg 863 A3
Rail transport Special provisions (RID) Limited quantities (RID)	274 1kg



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According to SS 586 Part 3 (2022)

Packing instructions (RID)

P002, IBC08

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

Regulation		Component / Mixture
Arms and Explosives Act	Not applicable	
Chemical Weapons Prohibition Act		
Environmental Protection and Management (Air Impurities) Regulations		
Environmental Protection and Management Act (Hazardous Substances)		
Environmental Public Health (Quality of Piped Drinking Water) Regulations		
Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations		
Maritime and Port Authority of Singapore (Dangerous, Petroleum and Explosives) Regulations		
Misuse of Drugs Act		
Poisons Act		
Poisons Rules		
Hazardous waste (Control of export, import and transit) Act		
Strategic goods (Control) Act		

15.2. International regulations

No additional information available

15.3 Chemical inventory status

03/02/2025
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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



Safety Data Sheet

According to SS 586 Part 3 (2022)

Other information

Indication of changes				
Section	Changed item	Change	Comments	
15	Regulations Singapore	Modified		

SDS_SG_Hilti

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