

HIT-RE 500 V3

Safety information for 2-Component-products

Issue date: 19/03/2025

Revision date: 19/03/2025

Supersedes: 08/12/2022

Version: 4.0

SECTION 1: Kit identification

1.1 Product identifier

Product name

HIT-RE 500 V3



Product code

BU Anchor

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

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SECTION 2: General information

Storage

Storage temperature : 5 - 25 ° C

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

This Kit should be handled in accordance with good laboratory practices and appropriate personal protective equipment should be used

SECTION 3: Kit contents

Classification of the Product

Classification according to the United Nations GHS (Rev. 4, 2011)

Health hazards

Acute toxicity (Oral), Category 5
Skin corrosion, Category 1B
Serious eye damage/eye irritation, Category 1
Skin sensitization, Category 1
Toxic to reproduction, Category 1B
Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation

Environmental hazards

Hazardous to the aquatic environment - Acute Hazard, Category 2
Hazardous to the aquatic environment - Chronic Hazard, Category 2

Other hazards not mentioned above are Not applicable or No data is available.

Label elements

HIT-RE 500 V3

Safety information for 2-Component-products

Labelling according to the United Nations GHS (Rev. 4, 2011)

Hazard pictograms (GHS TW)



Signal word (GHS TW)

Danger

Hazardous ingredients

Epoxy resin, Amines

Hazard statements (GHS TW)

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

Precautionary statements (GHS TW)

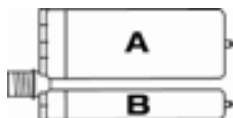
P280 - Wear eye protection, protective clothing, protective gloves.
P262 - Do not get in eyes, on skin, or on clothing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 - IF ON SKIN: Wash with plenty 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 (Rev. 4, 2011)
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		1	pcs (pieces)	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

SECTION 4: General advice

General advice

For professional users only

SECTION 5: Safe handling advice

HIT-RE 500 V3

Safety information for 2-Component-products

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

SECTION 6: First aid measures

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

SECTION 7: Fire fighting measures

Firefighting instructions	Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment
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HIT-RE 500 V3

Safety information for 2-Component-products

Protection during firefighting

Self-contained breathing apparatus

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

Hazardous decomposition products
in case of fire

Thermal decomposition generates :

Carbon dioxide

Carbon monoxide

SECTION 8: Other information

No data available


HIT-RE 500 V3, B

according to MoL regulation (10702052242)
 Issue date: 2025/04/29 Revision date: 2025/04/29 Supersedes: 2023/12/13 Version: 1.6

1. Identification of the chemical and of the business entity

Chemical name	HIT-RE 500 V3, B
Product code	BU Anchor
Other Names	-
Recommended use	Composite mortar component for fasteners in the construction industry
Restrictions on use	-
Names, addresses, and phone numbers of manufacturer, importer or supplier	Supplier 喜利得股份有限公司 220 台湾 台北 - 臺灣 新北市板橋區新站路16號24樓 T +886 2 6630 0345; 0800 221 036 Toll Free - F +886 2 2950 6132 twcs@hilti.com Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH 86916 Deutschland Kaufering Hiltistraße 6 T +49 8191 906876 product.compliance-anchors@hilti.com
Emergency number	GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

2. Hazard(s) identification

GHS classification (Taiwan)	
Health hazards	Acute toxicity (Oral), Category 5 Skin corrosion, Category 1B Skin sensitization, Category 1 Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environment - Acute Hazard, Category 2 Hazardous to the aquatic environment - Chronic Hazard, Category 3
Label content	
Hazard pictograms (GHS TW)	
Signal word (GHS TW)	Danger
Hazard statements (GHS TW)	(H314) Causes severe skin burns and eye damage (H317) May cause an allergic skin reaction (H335) May cause respiratory irritation (H401) Toxic to aquatic life (H412) Harmful to aquatic life with long lasting effects
Precautionary statements	-

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

Name	CAS-No.	Concentration	Classification according to the United Nations GHS
m-Xylylenediamine (間二甲苯二胺)	1477-55-0	5 - <8	Acute toxicity (Oral), Category 4, H302 Acute toxicity (Oral), Category 4, H302 Acute toxicity (Inhalation:dust,mist), Category 4, H332 Acute toxicity (Inhalation:dust,mist), Category 4, H332 Skin corrosion, Category 1B, H314 Serious eye damage/eye irritation, Category 1, H318 Skin sensitization, Category 1B, H317 Hazardous to the aquatic environment - Acute Hazard, Category 3, H402 Hazardous to the aquatic environment - Chronic Hazard, Category 3, H412 Hazardous to the aquatic environment - Chronic Hazard, Category 3, H412
2,4,6-tris(dimethylaminomethyl)phenol (2,4,6-[(二甲基氨基)甲基]苯酚)	90-72-2	1 - 2.5	Acute toxicity (Oral), Category 4, H302 Skin irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Hazardous to the aquatic environment - Acute Hazard, Category 3, H402
3-Aminopropyltriethoxysilan (3-胺丙基三乙氧基矽烷)	919-30-2	1 - 2.5	Acute toxicity (Oral), Category 4, H302 Acute toxicity (Dermal), Category 5, H313 Skin corrosion, Category 1B, H314 Skin sensitization, Category 1, H317

4. First-aid measures

First aid measures for different exposure routes

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.

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

First-aid measures after skin contact	Wash with plenty of water/... – Take off immediately all contaminated clothing. – Wash contaminated clothing before reuse. – If skin irritation or rash occurs: Get immediate medical advice/attention.
First-aid measures after eye contact	Get immediate medical advice/attention. – Immediately rinse with water for a prolonged period while holding the eyelids wide open – Remove contact lenses, if present and easy to do. Continue rinsing. – Consult an eye specialist
First-aid measures after ingestion	Do not induce vomiting – Rinse mouth – Immediately call a POISON CENTER/doctor.
Most Important Symptoms/Effects	
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.
Protection for the first aid staff	
Personal Protection in First Aid and Measures	Avoid all unnecessary exposure
Notes to physician	
No additional information available	

5. Firefighting measures

Extinguishing media

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

Specific hazards arising from firefighting measures

Fire hazard	–
Explosion hazard	–
General measures	Spilled material may present a slipping hazard
Reactivity in case of fire	–
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

Specific firefighting methods

Firefighting instructions	Use water spray or fog for cooling exposed containers – Exercise caution when fighting any chemical fire – Prevent fire fighting water from entering the environment
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Special protective equipment and precautions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus – Do not enter fire area without proper protective equipment, including respiratory protection
Personal protection (Emergency response)	–

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

Storage temperature	5 - 25 ° C
Heat and ignition sources	Keep away from heat and direct sunlight

8. Exposure controls/personal protection

Appropriate engineering controls	Ensure good ventilation of the work station
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Control parameters

No additional information available

Additional information	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.
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Personal protective equipment

General:

Personal protective equipment:
 Safety glasses. Protective clothing. Protective gloves.
 Materials for protective clothing Long sleeved protective clothing

Respiratory protection:

–

Hand protection:

Hand protection The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function' s effective duration. Immediately change contaminated gloves

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

Eye protection:

Eye protection Wear security glasses which protect from splashes

Skin and body protection:

–

Personal protective equipment symbol(s):



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.

9. Physical and chemical properties

Appearance	Thixotropic paste
Physical state	Solid
Colour	red

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

Odour	Amine-like
Odour threshold [ppm]	No data available
pH	11.5
Evaporation rate	No data available
Melting 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 (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	1.31 g/cm³
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, dynamic	50 - 70 Pa • s HN-0333
Explosive limits (vol %)	No data available

10. Stability and reactivity

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

11. Toxicological information

Routes of exposure

No additional information available

Symptoms

Potential adverse human health effects and No additional information available

Acute toxicity

Acute toxicity (oral)	May be harmful if swallowed.
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

HIT-RE 500 V3, B	
ATE TW (oral)	2356.632 mg/kg bodyweight

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

2-methyl-1,5-pentanediamine (15520-10-2)	
LD50 oral rat	1690 mg/kg (Rat)
LD50 oral	1170 mg/kg (Rat)
LC50 Inhalation - Rat	4.9 mg/l
Phenol, styrenated (61788-44-1)	
LD50 oral rat	> 2500 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	158.31 mg/l/4h
m-Xylylenediamine (1477-55-0)	
LD50 oral rat	930 mg/kg
LD50 dermal rat	> 3100 mg/kg
LD50 dermal	> 3100 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	1.34 mg/l/4h
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
LD50 oral rat	2169 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 2169 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 2000 mg/kg (Rat; Literature study; Other; >1 ml/kg; Rat; Experimental value)
3-Aminopropyltriethoxysilan (919-30-2)	
LD50 oral rat	1.57 - 2.83 ml/kg (EPA OTS 798.1175, Rat, Male / female, Experimental value, Oral)
LD50 oral	1570 mg/kg
LD50 dermal rabbit	4.29 ml/kg (EPA OTS 798.1100, 24 h, Rabbit, Male / female, Experimental value, Dermal)
LD50 dermal	4290 mg/kg
LC50 Inhalation - Rat [ppm]	> 5 ppm (OECD 403: Acute Inhalation Toxicity, 6 h, Rat, Male, Experimental value, Inhalation (vapours))
LC50 Inhalation - Rat (Dust/Mist)	7.35 mg/l/4h
Skin corrosion/irritation	
Skin corrosion/irritation	Causes severe skin burns. pH: 11.5
Serious eye damage/irritation	
Serious eye damage/irritation	Assumed to cause serious eye damage
Respiratory or skin sensitisation	
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Chronic toxicity or long-term toxicity	
Germ cell mutagenicity	
Germ cell mutagenicity	Not classified
Carcinogenicity	
Carcinogenicity	Not classified
Reproductive toxicity	
Reproductive toxicity	Not classified
STOT-single exposure	
STOT-single exposure	May cause respiratory irritation.
2-methyl-1,5-pentanediamine (15520-10-2)	
STOT-single exposure	May cause respiratory irritation.

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

STOT-repeated exposure	
STOT-repeated exposure	Not classified
Aspiration hazard	
Aspiration hazard	Not classified
Viscosity, kinematic	No data available

12. Ecological information

Ecotoxicity

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

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

Hazardous to the aquatic environment, short-term (acute) Toxic to aquatic life.

2-methyl-1,5-pentanediamine (15520-10-2)	
LC50 - Fish [1]	130 mg/l (LC50; 48 h)
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
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
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)
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)

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

Hazardous to the aquatic environment, long-term (chronic) Harmful to aquatic life with long lasting effects.

m-Xylylenediamine (1477-55-0)	
NOEC (chronic)	4.7 mg/l
NOEC chronic crustacea	4.7 mg/l

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

m-Xylylenediamine (1477-55-0)	
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
NOEC (chronic)	2 mg/l (28 d; activated sludge, domestic; respiration rate; ECHA)

Additional ecotoxicological information

2-methyl-1,5-pentanediamine (15520-10-2)	
LOEC (acute)	1800 mg/l
NOEC (acute)	1000 mg/l
Phenol, styrenated (61788-44-1)	
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)	
LOEC (chronic)	15 mg/l
NOEC (acute)	10.5 mg/kg
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Threshold limit - Algae [1]	10 - 100, Algae
Threshold limit - Algae [2]	84 mg/l (72 h; Scenedesmus subspicatus; Growth rate)

Persistence and degradability

HIT-RE 500 V3, 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)	
Persistence and degradability	Not readily biodegradable in water

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 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)

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

2-methyl-1,5-pentanediamine (15520-10-2)	
Bioaccumulative potential	Bioaccumulative potential
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Partition coefficient n-octanol/water (Log Pow)	0.77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 ° C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.32 (log Koc, Calculated value)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4)
3-Aminopropyltriethoxysilan (919-30-2)	
BCF - Fish [1]	3.4 (OECD 305: Bioconcentration: Flow-Through Fish Test, 8 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	1.7 (QSAR, 20 ° C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500)

Mobility in soil

2-methyl-1,5-pentanediamine (15520-10-2)	
Partition coefficient n-octanol/water (Log Pow)	0.27 (Estimated value)
Phenol, styrenated (61788-44-1)	
Surface tension	48.45 mN/m (20 ° C, 90 %, OECD 115: Surface Tension of Aqueous Solutions)
Partition coefficient n-octanol/water (Log Pow)	6.24 - 7.77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow-Stirring Method)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)
Ecology - soil	Low potential for mobility in soil.
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Surface tension	No data available in the literature
Partition coefficient n-octanol/water (Log Pow)	0.77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 ° C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.32 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.
3-Aminopropyltriethoxysilan (919-30-2)	
Partition coefficient n-octanol/water (Log Pow)	1.7 (QSAR, 20 ° C)
Ecology - soil	No (test)data on mobility of the substance available.

Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

13. Disposal considerations

Waste treatment methods	-
Ecological information	Avoid release to the environment.
Sewage disposal recommendations	-

HIT-RE 500 V3, B





according to MoL regulation (10702052242)

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

14.6. Special precautions for user

Overland transport	
Classification code (ADR)	C8
Special provisions (ADR)	274
Limited quantities (ADR)	1kg
Packing instructions (ADR)	P002, IBC08
Mixed packing provisions (ADR)	MP10
Transport category (ADR)	2

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

Orange plates	<div>80</div> <div>3259</div>
Tunnel restriction code (ADR)	E

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
Segregation (IMDG)	SGG18, SG35
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, A803

Rail transport	
Special provisions (RID)	274
Limited quantities (RID)	1kg
Packing instructions (RID)	P002, IBC08

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

15. Regulatory information

Applicable regulations	
1.	Occupational Safety and Health Act
2.	Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
3.	Traffic Safety Rule

16. Other information

Literature references	
-	
Version	1.6
Issue date	2025/04/29
Revision date	2025/04/29
Supersedes	2023/12/13

Section	Changed item	Change	Comments
2	GHS TW classification	Modified	

HIT-RE 500 V3, B

according to MoL regulation (10702052242)

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

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

HIT-RE 500 V3, A


according to MoL regulation (10702052242)

Issue date: 2025/04/29 Revision date: 2025/04/29 Supersedes: 2023/12/13 Version: 3.0

1. Identification of the chemical and of the business entity

Chemical name	HIT-RE 500 V3, A
Product code	BU Anchor
Other Names	-
Recommended use	For professional use only
Restrictions on use	Restricted to professional users
Names, addresses, and phone numbers of manufacturer, importer or supplier	<p>Supplier</p> <p>喜利得股份有限公司</p> <p>220 台湾 台北 - 臺灣 新北市板橋區新站路16號24樓</p> <p>T +886 2 6630 0345;</p> <p>0800 221 036 Toll Free - F +886 2 2950 6132</p> <p>twcs@hilti.com</p> <p>Department issuing data specification sheet</p> <p>Hilti Entwicklungsgesellschaft mbH</p> <p>86916 Deutschland Kaufering Hiltistraße 6</p> <p>T +49 8191 906876</p> <p>product.compliance-anchors@hilti.com</p>
Emergency number	GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

2. Hazard(s) identification

GHS classification (Taiwan)	
Health hazards	<p>Skin irritation, Category 2</p> <p>Serious eye damage/eye irritation, Category 1</p> <p>Skin sensitization, Category 1</p> <p>Toxic to reproduction, Category 1B</p>
Environmental hazards	<p>Hazardous to the aquatic environment - Acute Hazard, Category 2</p> <p>Hazardous to the aquatic environment - Chronic Hazard, Category 2</p>
Label content	
Hazard pictograms (GHS TW)	 <p>GHS05, GHS07, GHS08, GHS09</p>
Signal word (GHS TW)	Danger
Hazard statements (GHS TW)	<p>(H315) Causes skin irritation</p> <p>(H317) May cause an allergic skin reaction</p> <p>(H318) Causes serious eye damage</p> <p>(H360) May damage fertility or the unborn child</p> <p>(H411) Toxic to aquatic life with long lasting effects</p>
Precautionary statements	-
Prevention precautionary statements	<p>(P280) Wear eye protection, protective clothing, protective gloves.</p> <p>(P262) Do not get in eyes, on skin, or on clothing.</p>

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Response Precautionary Statements	(P305+P351+P338) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P333+P313) If skin irritation or rash occurs: Get medical advice/attention. (P337+P313) If eye irritation persists: Get medical advice/attention. (P302+P352) IF ON SKIN: Wash with plenty of Water.
Storage precautionary statements	-
Disposal precautionary statements	-
Other hazards which do not result in classification	-

3. Composition/information on ingredients

Substance:

Not applicable

Mixture:

Chemical properties Refer to Section 9

Name	CAS-No.	Concentration	Classification according to the United Nations GHS
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (2,2'-[(1-甲基亚乙基)双(4,1-亚苯氧基亚甲基)]双环氧乙烷)	1675-54-3	25 - 40	Skin irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitization, 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 (甲醛與環氧氯丙烷及苯酚的寡聚反應產物)	9003-36-5	10 - 20	Skin irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2, H319 Skin sensitization, Category 1, H317 Hazardous to the aquatic environment - Chronic Hazard, Category 2, H411
Trimethylolethantriglycidylether (甲基乙烷三縮水甘油醚)	68460-21-9	5 - 10	Skin irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitization, Category 1, H317 Hazardous to the aquatic environment - Chronic Hazard, Category 3, H412

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Name	CAS-No.	Concentration	Classification according to the United Nations GHS
butanedioldiglycidyl ether (1,4-丁二醇二縮水甘油醚)	2425-79-8	5 - 10	Acute toxicity (Oral), Category 4, H302 Acute toxicity (Dermal), Category 4, H312 Acute toxicity (Inhalation), Category 4, H332 Skin irritation, Category 2, H315 Serious eye damage/eye irritation, Category 1, H318 Skin sensitization, Category 1, H317 Toxic to reproduction, Category 1B, H360 Hazardous to the aquatic environment - Acute Hazard, Category 3, H402 Hazardous to the aquatic environment - Chronic Hazard, Category 3, H412
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane ([3-(2,3-環氧丙氧)-丙基]三甲氧基矽烷)	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 Hazardous to the aquatic environment - Chronic Hazard, Category 3, H412

4. First-aid measures

First aid measures for different exposure routes

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

Most Important Symptoms/Effects

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

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Protection for the first aid staff

Personal Protection in First Aid and Measures

Avoid all unnecessary exposure

Notes to physician

No additional information available

5. Firefighting measures

Extinguishing media

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

Specific hazards arising from firefighting measures

Fire hazard	–
Explosion hazard	–
General measures	Spilled material may present a slipping hazard
Reactivity in case of fire	–
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

Specific firefighting methods

Firefighting instructions	Use water spray or fog for cooling exposed containers – Exercise caution when fighting any chemical fire – Prevent fire fighting water from entering the environment
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Special protective equipment and precautions for fire-fighters

Protection during firefighting	Self-contained breathing apparatus – Do not enter fire area without proper protective equipment, including respiratory protection
Personal protection (Emergency response)	–

6. Accidental release measures

Personal precautions

General measures	Spilled material may present a slipping hazard
For non-emergency personnel	
Emergency procedures	Evacuate unnecessary personnel
For emergency responders	
Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection
Emergency procedures	Ventilate area

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Environmental precautions

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

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

7. Handling and storage

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.

Storage

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

8. Exposure controls/personal protection

Appropriate engineering controls	Ensure adequate ventilation
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Control parameters

No additional information available

Additional information	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.
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HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Personal protective equipment

General:

Personal protective equipment:

Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Materials for protective clothing Long sleeved protective clothing

Respiratory protection:

–

Hand protection:

Hand protection The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function’ s effective duration. Immediately change contaminated gloves

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

Eye protection:

Eye protection Wear security glasses which protect from splashes

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

Skin and body protection:

–

Personal protective equipment symbol(s):



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.

9. Physical and chemical properties

Appearance	Thixotropic paste
Physical state	Solid
Colour	Light grey
Odour	characteristic
Odour threshold [ppm]	No data available
pH	6.6
Evaporation rate	No data available
Melting point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20° C	No data available
Density	1.45 g/cm³
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, dynamic	45 - 59 Pa • s 23 ° C
Explosive limits (vol %)	No data available

10. Stability and reactivity

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

11. Toxicological information

Routes of exposure

No additional information available

Symptoms

Potential adverse human health effects and No additional information available

Acute toxicity

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
LD50 oral rat	> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity - Acute Toxic Class Method; Experimental value)
LD50 oral	11400 mg/kg
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)
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)
butanedioldiglycidyl ether (2425-79-8)	
LD50 oral rat	2980 mg/kg (Rat)
LD50 oral	1163 mg/kg (Rat; Exp. Key study ECHA)

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
LD50 dermal rat	> 2150 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal, 7 day(s))
LD50 dermal rabbit	1130 mg/kg (Rabbit)
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)	
LD50 oral rat	8025 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Experimental value)
LD50 dermal rabbit	4250 mg/kg bodyweight (Rabbit; Experimental value; Equivalent or similar to OECD 402)
Skin corrosion/irritation	
Skin corrosion/irritation	Causes skin irritation. pH: 6.6
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Chronic toxicity or long-term toxicity	
Germ cell mutagenicity	
Germ cell mutagenicity	Not classified
Carcinogenicity	
Carcinogenicity	Not classified
Reproductive toxicity	
Reproductive toxicity	May damage fertility or the unborn child.
STOT-single exposure	
STOT-single exposure	Not classified
STOT-repeated exposure	
STOT-repeated exposure	Not classified
Aspiration hazard	
Aspiration hazard	Not classified
Viscosity, kinematic	No data available

12. Ecological information

Ecotoxicity	
Ecology - water	Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	
Hazardous to the aquatic environment, short-term (acute)	Toxic to aquatic life.
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)
butanedioldiglycidyl ether (2425-79-8)	
LC50 - Fish [1]	24 mg/l (96 h; Pisces) ECHA
LC50 - Other aquatic organisms [1]	> 160 mg/l

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)	
LC50 - Fish [1]	55 mg/l (96 h; Cyprinus carpio; Young)
LC50 - Fish [2]	237 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
EC50 - Crustacea [1]	473 - 710 mg/l (48 h; Daphnia magna)

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

Hazardous to the aquatic environment, long - term (chronic) Toxic to aquatic life with long lasting effects.

Additional ecotoxicological information

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
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)	
NOEC (acute)	40 mg/l
Threshold limit - Algae [1]	88930 mg/l (96 h; Algae)
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)	
Threshold limit - Algae [1]	119 mg/l (7 days; Anabaena flosaquae)
Threshold limit - Algae [2]	250 mg/l (72 h; Selenastrum capricornutum)

Persistence and degradability

HIT-RE 500 V3, 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

Bioaccumulative potential

HIT-RE 500 V3, A	
Bioaccumulative potential	Not established
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 ° C)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500)
butanedioldiglycidyl ether (2425-79-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 ° C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.92 (Estimated value)

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Mobility in soil

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)	
Surface tension	59 mN/m (20 ° C, 0.09 g/l)
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 ° C)
Ecology - soil	No (test)data on mobility of the substance available.
butanedioldiglycidyl ether (2425-79-8)	
Surface tension	44.4 mN/m (20 ° C, 90 %, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Pow)	-0.27 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 ° C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.1 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Highly mobile in soil.
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)	
Partition coefficient n-octanol/water (Log Pow)	-0.92 (Estimated value)

Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

13. Disposal considerations

Waste treatment methods	-
Ecological information	Avoid release to the environment.
Sewage disposal recommendations	-
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	IATA	RID
Special provision(s) applied : 375	Special provision(s) applied : 969	Special provision(s) applied : A197	Special provision(s) applied : 375
These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of 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

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

ADR	IMDG	IATA	RID
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)	Environmentally hazardous substance, solid, n.o.s. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol)
Transport document description			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III	UN 3077 Environmentally hazardous substance, solid, n.o.s. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane ; Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol), 9, III
14.3. Transport hazard class(es)			
9	9	9	9
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.			
not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7			

14.6. Special precautions for user

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

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Orange plates	<div>90</div> <div>3077</div>
Tunnel restriction code (ADR)	-

Transport by sea	
Special provisions (IMDG)	274, 335, 375, 966, 967, 969
Limited quantities (IMDG)	5 kg
Packing instructions (IMDG)	LP02, P002
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	A
Stowage and handling (IMDG)	SW23
MFAG-No	171

Air transport	
PCA packing instructions (IATA)	956
PCA max net quantity (IATA)	400kg
CAO packing instructions (IATA)	956
Special provisions (IATA)	A97, A158, A179, A197, A215

Rail transport	
Special provisions (RID)	274, 335, 375, 601
Limited quantities (RID)	5kg
Packing instructions (RID)	P002, IBC08, LP02, R001

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

15. Regulatory information

Applicable regulations

- Occupational Safety and Health Act
- Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste
- Traffic Safety Rule

16. Other information

Literature references		-	
Version	3.0		
Issue date	2025/04/29		
Revision date	2025/04/29		
Supersedes	2023/12/13		
Section	Changed item	Change	Comments
2	GHS TW classification	Modified	
2	Hazard pictograms (GHS TW)	Modified	
2	Hazard statements (GHS TW)	Modified	
3	Composition/information on ingredients	Modified	

HIT-RE 500 V3, A

according to MoL regulation (10702052242)

Section	Changed item	Change	Comments
14	Transport Information	Modified	

Abbreviations and acronyms

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways, ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road, ATE – Acute Toxicity Estimate, BCF – Bioconcentration factor, CLP – Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008, DMEL – Derived Minimal Effect level, DNEL – Derived No Effect Level, IATA – International Air Transport Association, EC50 – Median effective concentration, IMDG – International Maritime Dangerous Goods, LC50 – Median lethal concentration, LD50 – Median lethal dose, LOAEL – Lowest Observed Adverse Effect Level, NOAEC – No-Observed Adverse Effect Concentration, NOAEL – No-Observed Adverse Effect Level, NOEC – No-Observed Effect Concentration, PBT – Persistent Bioaccumulative Toxic, PNEC – Predicted No-Effect Concentration, 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

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.