

HIT-RE 500 V3

Safety information for 2-Component-products

Issue date: 13/05/2020 Revision date: 13/05/2020 Supersedes: 22/02/2019 Version: 2.3

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

Hilti Deutschland AG

Hiltistr. 2

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de.kundenservice@hilti.com

SECTION 2: General information

Storage Storage temperature: 5 - 25 °C

Germany

Reference to AwSV Water hazard class (WGK) awg, Hazardous to water in general (generally water endagering

(AwSV §3 section (2)))

Storage class (LGK) LGK 6.1C - Combustible substances of acute toxicity, category 3 /

hazardous substances that are toxic or produce chronic

effects

GISCODE RE90 - Epoxy resin products, toxic for reproduction and/or mutagenic, sensitising, low in

solvents or total solid

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 Regulation (EC) No. 1272/2008 [CLP]

 Skin Corr. 1B
 H314

 Eye Dam. 1
 H318

 Skin Sens. 1
 H317

 Muta. 2
 H341

 Repr. 1B
 H360

 STOT SE 3
 H335

 Aquatic Chronic 2
 H411

Full text of H statements : see section 16

22/06/2020 EN (English) 1/26



HIT-RE 500 V3

Kit SIS (Safety Information Sheet)

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)









GHS05

Signal word (CLP) Danger

Hazardous ingredients Epoxy resin, Amines

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

H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H341 - Suspected of causing genetic defects.
H360 - May damage fertility or the unborn child.
H411 - Toxic to aquatic life with long lasting effects.

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

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

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

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

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

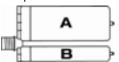
P302+P352 - IF ON SKIN: Wash with plenty of water.

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 Regulation (EC) No. 1272/2008 [CLP]
HIT-RE 500 V3, A		1	pcs (pieces)	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Chronic 2, H411
HIT-RE 500 V3, B		1	pcs (pieces)	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412

SECTION 4: General information

General advice For professional users only

SECTION 5: Safe handling advice

General measures Spilled material may present a slipping hazard

Environmental precautions Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

Avoid release to the environment

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

with official regulations.

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

22/06/2020 EN (English) 2/26



HIT-RE 500 V3

Kit SIS (Safety Information Sheet)

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

Technical measures

Precautions for safe handling

Wear personal protective equipment
Avoid contact with skin and eyes

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

smoking and when leaving work

Avoid contact during pregnancy/while nursing

Methods for cleaning up

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

Mechanically recover the product

On land, sweep or shovel into suitable containers

Store away from other materials.

For containment Collect spillage.

Incompatible materials Sources of ignition Direct sunlight

Incompatible products Strong bases

Strong acids

SECTION 6: First aid measures

First-aid measures after ingestion

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

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

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

Consult an eye specialist

Do not induce vomiting

Rinse mouth

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 inhalation May cause an allergic skin reaction.

SECTION 7: Fire fighting measures

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

22/06/2020 EN (English) 3/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

lssue date: 13/05/2020 Revision date: 13/05/2020 Supersedes: 22/02/2019 Version: 1.11

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Mixture

Product name HIT-RE 500 V3, B
Product code BU Anchor

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec For professional use only

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Department issuing data specification sheet

Hilti Deutschland AG
Hilti Entwicklungsgesellschaft mbH
Hiltistr. 2
Hiltistraße 6

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1.4. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

irritation

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Hazardous to the aquatic environment — Chronic Hazard, Category 3

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





H412

GHS05 GHS07

Signal word (CLP) Danger

22.06.2020 EN (English) 4/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hazardous ingredients 2-methyl-1,5-pentanediamine; Phenol, styrenated; m-Xylylenediamine; 3-

Aminopropyltriethoxysilan

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

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

H412 - Harmful to aquatic life with long lasting effects.

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

P262 - Do not get in eyes, on skin, or on clothing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

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

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

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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methyl-1,5-pentanediamine	(CAS-No.) 15520-10-2 (EC-No.) 239-556-6 (REACH-no) 01-2119976310-41	25 - 35	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335
Phenol, styrenated	(CAS-No.) 61788-44-1 (EC-No.) 262-975-0 (REACH-no) 01-2119979575-18	5 - 10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
m-Xylylenediamine	(CAS-No.) 1477-55-0 (EC-No.) 216-032-5 (REACH-no) 01-2119480150-50	5 - <8	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
2,4,6-tris(dimethylaminomethyl)phenol	(CAS-No.) 90-72-2 (EC-No.) 202-013-9 (EC Index-No.) 603-069-00-0 (REACH-no) 01-2119560597-27	1 - 2,5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319
3-Aminopropyltriethoxysilan	(CAS-No.) 919-30-2 (EC-No.) 213-048-4 (EC Index-No.) 612-108-00-0 (REACH-no) 01-2119480479-24	1 - 2,5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317

Full text of H-statements: see section 16

22.06.2020 EN (English) 5/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

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

First-aid measures after skin contact Wash with plenty of water/.... Take off immediately all contaminated clothing. Wash

contaminated clothing before reuse. If skin irritation or rash occurs: Get immediate medical

advice/attention

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

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

Continue rinsing. Consult an eye specialist.

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

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects Causes severe skin burns and eye damage.

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

Symptoms/effects after eye contact Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

fire

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions

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

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

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

including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

6.2. Environmental precautions

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

22.06.2020 EN (English) 6/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

work. Avoid contact during pregnancy/while nursing.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Comply with applicable regulations.

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

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HIT-RE 500 V3, B		
EU	Local name	Silica crystaline (Quartz)
EU	IOELV TWA (mg/m³)	0,05 mg/m³ (respirable dust)
EU	Notes	(Year of adoption 2003)

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

for this product.

8.2. Exposure controls

Appropriate engineering controls Ensure good ventilation of the work station.

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

Materials for protective clothing Long sleeved protective clothing

Hand protection Wear protective gloves. The permeation time is not the maximum wearing time! Generally

speaking, it must be reduced. Contact with either mixtures of substances or different substances

may shorten the protective function's effective duration.

Туре	Material	Permeation	Thickness (mm)	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4	EN 374

22.06.2020 EN (English) 7/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Eye protection

Wear security glasses which protect from splashes

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Skin and body protection

Wear suitable protective clothing







Environmental exposure controls

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

general rules of occupational hygiene and safety.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

Other information

Do not eat, drink or smoke during use.

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 11,5

Relative evaporation rate (butylacetate=1) No data available Melting point No data available No data available Freezing point No data available Boiling point Flash point No data available 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 Relative density No data available 1,31 g/cm³ Density

Solubility insoluble in water.

Log Pow No data available

Viscosity, kinematic No data available

Viscosity, dynamic 50 - 70 Pa·s HN-0333

Explosive properties No data available

Oxidising properties No data available

Explosive limits No data available

9.2. Other information

No additional information available

22.06.2020 EN (English) 8/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

2-methyl-1,5-pentanediamine (15520-10-2)

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

z-memyi-1,5-pemanediamine (15520-10-2)	
LD50 oral rat	1690 mg/kg (Rat)
LD50 dermal rat	1870 mg/kg
LC50 inhalation rat (mg/l)	4,9 mg/l
Phenol, styrenated (61788-44-1)	
LD50 oral rat	> 2500 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	158,31 mg/l/4h
m-Xylylenediamine (1477-55-0)	
LD50 oral rat	1090 mg/kg
LD50 oral	660 mg/kg
LD50 dermal rat	> 3100 mg/kg
LD50 dermal	> 3100 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1,34 mg/l/4h
3-Aminopropyltriethoxysilan (919-30-2)	
LD50 oral rat	1,57 ml/kg
2,4,6-tris(dimethylaminomethyl)phenol (90	0-72-2)
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)
Skin corrosion/irritation	Causes severe skin burns and eye damage.
	pH: 11,5
Serious eye damage/irritation	Causes serious eye damage.
	pH: 11,5
Respiratory or skin sensitisation	May cause an allergic skin reaction.

22.06.2020 EN (English) 9/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

Carcinogenicity Not classified

Additional information Based on available data, the classification criteria are not met

Reproductive toxicity Not classified

Additional information Based on available data, the classification criteria are not met

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure Not classified

Additional information Based on available data, the classification criteria are not met

Aspiration hazard Not classified

Additional information Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

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

Hazardous to the aquatic environment, short-

term (acute)

Not classified

Hazardous to the aquatic environment, long-

term (chronic)

Harmful to aquatic life with long lasting effects.

2-methyl-1,5-pentanediamine (15520-10-2)	
LC50 fish 1	130 mg/l (LC50; 48 h)
LOEC (acute)	1800 mg/l
NOEC (acute)	1000 mg/l
Phenol, styrenated (61788-44-1)	
LC50 fish 1	5,6 mg/l
LC50 other aquatic organisms 1	9,7 mg/l
EC50 Daphnia 1	1,44 mg/l
NOEC (acute)	3,2 mg/l
Threshold limit algae 1	0,326 mg/l (72 h; Algae)
Threshold limit algae 2	0,14 mg/l (72 h; Algae)
m-Xylylenediamine (1477-55-0)	
LC50 fish 1	75 mg/l
LC50 other aquatic organisms 1	20,3 ppb
EC50 Daphnia 1	15 mg/l
LOEC (chronic)	15 mg/l
NOEC (acute)	10,5 mg/kg
NOEC (chronic)	4,7 mg/l
NOEC chronic crustacea	4,7 mg/l
2,4,6-tris(dimethylaminomethyl)phenol (90-72	2-2)
LC50 fish 1	> 100 mg/l (96 h; Pisces; Nominal concentration)
EC50 Daphnia 1	10 - 100 mg/l (Invertebrata; Estimated value)
EC50 other aquatic organisms 1	84 mg/l (72 h; Desmodesmus subspicatus; growth rate; ECHA)
LC50 fish 2	70,9 mg/l (96 h; Pisces)
ErC50 (algae)	84 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static
	system, Fresh water, Experimental value, GLP)
NOEC (chronic)	2 mg/l (28 d; activated sludge, domestic; respiration rate; ECHA)
Threshold limit algae 1	10 - 100,Algae
Threshold limit algae 2	84 mg/l (72 h; Scenedesmus subspicatus; Growth rate)

12.2. Persistence and degradability

HIT-RE 500 V3, B	
Persistence and degradability	May cause long-term adverse effects in the environment.

22.06.2020 EN (English) 10/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

12.3. Bioaccumulative potential

HIT-RE 500 V3, B		
Bioaccumulative potential	Not established.	
2-methyl-1,5-pentanediamine (15520-10-2)		
Log Pow	0,27 (Estimated value)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).	
Phenol, styrenated (61788-44-1)		
BCF fish 2	3246 mg/l	
Log Pow	6,24 - 7,77 (Experimental value; OECD 123: Partition Coefficient (1-Octanol/Water): Slow- Stirring Method)	
Bioaccumulative potential	Bioaccumulative potential.	
2,4,6-tris(dimethylaminomethyl)phenol (90-7	2-2)	
Log Pow	0,77 (Literature; 0.219; Experimental value; Equivalent or similar to OECD 107; 21.5 °C)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).	

12.4. Mobility in soil

Phenol, styrenated (61788-44-1)		
Ecology - soil	No (test)data on mobility of the substance available.	
2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)		
Log Koc	1,32 (log Koc, Calculated value)	
Ecology - soil	Highly mobile in soil.	

12.5. Results of PBT and vPvB assessment

Component	
2,4,6-tris(dimethylaminomethyl)phenol (90-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
72-2)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

emptied cartridges must be disposed of as special waste in accordance with official regulations.

Packaging contaminated by the product : Dispose in a safe manner in accordance with

local/national regulations.

Ecology - waste materials Avoid release to the environment.

European List of Waste (LoW) code 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous

substances

20 01 27* - paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

Other information No supplementary information available

ADR Regulatory status: Regulated IMDG Regulatory status: Regulated IATA Regulatory status: Regulated RID Regulatory status: Regulated

22.06.2020 EN (English) 11/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	RID	
14.1. UN number				
3259	3259	3259	3259	
14.2. UN proper shipping I	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 descript	ion			
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 cla	ss(es)			
8	8	8	8	
***************************************	***	8	8	
14.4. Packing group				
	II	II	II	
14.5. Environmental hazar	ds			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Classification code (ADR)

Special provisions (ADR)

Limited quantities (ADR)

Packing instructions (ADR)

Mixed packing provisions (ADR)

MP10

Transport category (ADR) 2

80 3259

Е

Tunnel restriction code (ADR)

- Transport by sea

Orange plates

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

22.06.2020 EN (English) 12/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Stowage and segregation (IMDG) Separated from acids.

MFAG-No 15

- Air transport

PCA packing instructions (IATA) 859
PCA max net quantity (IATA) 15kg
CAO packing instructions (IATA) 863
Special provisions (IATA) A3

- Rail transport

Special provisions (RID) 274 Limited quantities (RID) 1kg

Packing instructions (RID) P002, IBC08

Carriage prohibited (RID) No

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV Water hazard class (WGK) awg, Hazardous to water in general (generally water endagering

(AwSV §3 section (2)))

Storage class (LGK) LGK 8A - Combustible corrosive substances

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

GISCODE RE90 - Epoxy resin products, toxic for reproduction and/or mutagenic, sensitising, low in

solvents or total solid

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	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

22.06.2020 EN (English) 13/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
IATA	International Air Transport Association
EC50	Median effective concentration
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Other information

None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	(Dermal) Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1B	Skin sensitisation, category 1B	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Skin Corr. 1B	H314	On basis of test data
Eye Dam. 1	H318	On basis of test data
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

SDS_EU_Hilti

22.06.2020 EN (English) 14/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

22.06.2020 EN (English) 15/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Issue date: 13/05/2020 Revision date: 13/05/2020 Supersedes: 22/02/2019 Version: 4.4

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Mixture

Product name HIT-RE 500 V3, A
Product code BU Anchor

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec For professional use only

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Department issuing data specification sheet

Hilti Deutschland AG

Hilti Entwicklungsgesellschaft mbH

Hiltistr. 2 Hiltistraße 6

86916 Kaufering - Deutschland 86916 Kaufering - Deutschland

T +49 8191 90-0 - F +49 8191 90-1122 T +49 8191 906876 <u>de.kundenservice@hilti.com</u> T +49 8191 906876 <u>anchor.hse@hilti.com</u>

1.4. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1C

Serious eye damage/eye irritation, Category 1

Skin sensitisation, Category 1

H318

Skin sensitisation, Category 1

H317

Germ cell mutagenicity, Category 2

H341

Reproductive toxicity, Category 1B

H360

Hazardous to the aquatic environment — Chronic Hazard, Category 2

H411

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07





Signal word (CLP) Danger

22.06.2020 EN (English) 16/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hazardous ingredients Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol;

butanedioldiglycidyl ether; 1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-

(chloromethyl)oxirane; [3-(2,3-epoxypropoxy)propyl]trimethoxysilane

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

H317 - May cause an allergic skin reaction.
H341 - Suspected of causing genetic defects.
H360 - May damage fertility or the unborn child.
H411 - Toxic to aquatic life with long lasting effects.

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

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

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

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

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

P302+P352 - IF ON SKIN: Wash with plenty of water/...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	(CAS-No.) 1675-54-3 (EC-No.) 216-823-5 (EC Index-No.) 603-074-00-8 (REACH-no) 01-2119456619-26	25 - 40	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol	(CAS-No.) 9003-36-5 (EC-No.) 500-006-8 (REACH-no) 01-2119454392-40	10-20	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411
butanedioldiglycidyl ether	(CAS-No.) 2425-79-8 (EC-No.) 219-371-7 (EC Index-No.) 603-072-00-7 (REACH-no) 01-2119494060-45	5 - 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
1,3 Propanediol, 2 ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane	(CAS-No.) 30499-70-8 (EC-No.) 701-135-4 (REACH-no) 01-2120078341-60	5 - 10	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341 Repr. 1B, H360F Aquatic Chronic 2, H411
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	(CAS-No.) 2530-83-8 (EC-No.) 219-784-2 (REACH-no) 01-2119513212-58	3 - 5	Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits
2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	(CAS-No.) 1675-54-3 (EC-No.) 216-823-5	(5 = <c 100)="" 2,="" <="" h315<br="" irrit.="" skin="">(5 =<c 100)="" 2,="" <="" eye="" h319<="" irrit.="" th=""></c></c>
priorityionoxymothylonoyjalooxilairo	(EC Index-No.) 603-074-00-8	(0 = 10 1 100) Lyo iiiii. 2, 11010
	(REACH-no) 01-2119456619-26	

Full text of H-statements: see section 16

22.06.2020 EN (English) 17/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

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

breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact Gently wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin

irritation occurs: Get immediate medical advice/attention.

First-aid measures after eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

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

attention.

4.2. Most important symptoms and effects, both acute and delayed

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

Symptoms/effects after skin contact Causes skin irritation.

Symptoms/effects after eye contact Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

fire

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions

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

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

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

including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

Emergency procedures Ventilate area.

22.06.2020 EN (English) 18/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

work.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

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

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

HIT-RE 500 V3, A		
EU	Local name	Silica crystaline (Quartz)
EU	IOELV TWA (mg/m³)	0,05 mg/m³ (respirable dust)
EU	Notes	(Year of adoption 2003)

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

for this product.

8.2. Exposure controls

Appropriate engineering controls

No specific measures identified.

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

22.06.2020 EN (English) 19/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Materials for protective clothing Long sleeved protective clothing

Wear protective gloves. The permeation time is not the maximum wearing time! Generally Hand protection

speaking, it must be reduced. Contact with either mixtures of substances or different substances

may shorten the protective function's effective duration.

Туре	Material	Permeation	Thickness (mm)	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4	EN 374

Eye protection Wear security glasses which protect from splashes

Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Skin and body protection

Wear suitable protective clothing







Environmental exposure controls

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

general rules of occupational hygiene and safety.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Appearance Thixotropic paste. Colour Light grey. Odour characteristic. Odour threshold No data available

6.6

Relative evaporation rate (butylacetate=1) No data available No data available Melting point Freezing point No data available No data available Boiling point Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) 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/cm³

Solubility insoluble in water. No data available Log Pow Viscosity, kinematic No data available Viscosity, dynamic 45 - 59 Pa·s 23 °C Explosive properties No data available No data available Oxidising properties Explosive limits No data available

22.06.2020 EN (English) 20/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

Additional information Based on available data, the classification criteria are not met

	and that with A ablance 2.2 an annuary and whomat (0002.20 F)	
, , ,	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)	
LD50 dermal rabbit	1130 mg/kg (Rabbit)	
[3-(2,3-epoxypropoxy)propyl]trimeth	oxysilane (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)	
2,2'-[(1-methylethylidene)bis(4,1-phe	enyleneoxymethylene)]bisoxirane (1675-54-3)	
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
	pH: 6,6	
Serious eye damage/irritation	Causes serious eye damage.	
	pH: 6.6	

pH: 6,6

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Suspected of causing genetic defects.

Carcinogenicity Not classified

22.06.2020 EN (English) 21/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Additional information Based on available data, the classification criteria are not met

Reproductive toxicity May damage fertility or the unborn child.

STOT-single exposure Not classified

Additional information Based on available data, the classification criteria are not met

STOT-repeated exposure Not classified

Additional information Based on available data, the classification criteria are not met

Aspiration hazard Not classified

Additional information Based on available data, the classification criteria are not met

Potential adverse human health effects and

symptoms

No additional information available.

SECTION 12: Ecological information

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.

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	
Threshold limit algae 1	88930 mg/l (96 h; Algae)	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilan	e (2530-83-8)	
LC50 fish 1	55 mg/l (96 h; Cyprinus carpio; Young)	
EC50 Daphnia 1	473 - 710 mg/l (48 h; Daphnia magna)	
LC50 fish 2	237 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
Threshold limit algae 1	119 mg/l (7 days; Anabaena flosaquae)	
Threshold limit algae 2	250 mg/l (72 h; Selenastrum capricornutum)	
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)		
LC50 fish 1	2,3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system,	
	Fresh water, Experimental value, Nominal concentration)	
EC50 Daphnia 1	2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system,	
	Fresh water, Experimental value)	
LC50 fish 2	2,3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)	
Threshold limit algae 1	> 11 mg/l (72 h; Scenedesmus sp.)	
Threshold limit algae 2	4,2 mg/l (72 h; Scenedesmus sp.)	

12.2. 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		
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)		
Persistence and degradability	Not readily biodegradable in water.	

12.3. Bioaccumulative potential

HIT-RE 500 V3, A		
Bioaccumulative potential	Not established.	
butanedioldiglycidyl ether (2425-79-8)		
Log Pow	-0,15	
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (2530-83-8)		
Log Pow	-0,92 (Estimated value)	

22.06.2020 EN (English) 22/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)		
BCF other aquatic organisms 1	31 (Estimated value, Fresh weight)	
Log Pow	3 (Estimated value, 25 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. 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)	
Log Koc	2,65 (log Koc, SRC PCKOCWIN v2.0, QSAR)	
Ecology - soil	Low potential for adsorption in soil.	

12.5. Results of PBT and vPvB assessment

Component	
2,2'-[(1-methylethylidene)bis(4,1-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
phenyleneoxymethylene)]bisoxirane (1675-	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
54-3)	

Avoid release to the environment.

12.6. Other adverse effects

Additional information

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Product/Packaging disposal recommendations After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations.

Packaging contaminated by the product : Dispose in a safe manner in accordance with

local/pational regulations

local/national regulations.

Ecology - waste materials Avoid release to the environment.

European List of Waste (LoW) code 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous

substances

 $20\ 01\ 27^{\star}$ - paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

Other information No supplementary information available

ADR Regulatory status: Regulated IMDG Regulatory status: Regulated IATA Regulatory status: Regulated RID Regulatory status: Regulated

ADR	IMDG	IATA	RID		
14.1. UN number	14.1. UN number				
1759	1759	1759	1759		
14.2. UN proper shipping	14.2. UN proper shipping name				
CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)	Corrosive solid, n.o.s. (trimethylolpropane triglycidylether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)		
Transport document description					
UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, (E), ENVIRONMENTALLY	UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, MARINE POLLUTANT/ENVIRONMENTAL	UN 1759 Corrosive solid, n.o.s. (trimethylolpropane triglycidylether), 8, III, ENVIRONMENTALLY	UN 1759 CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether), 8, III, ENVIRONMENTALLY		

22.06.2020 EN (English) 23/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	RID
HAZARDOUS	LY HAZARDOUS	HAZARDOUS	HAZARDOUS
14.3. Transport hazard cla	ss(es)		
8	8	8	8
***************************************	¥2		
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
No supplementary information available			

14.6. Special precautions for user

- Overland transport

Classification code (ADR) C10 Special provisions (ADR) 274 5kg Limited quantities (ADR)

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

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

Orange plates

80 1759

Е

Tunnel restriction code (ADR)

- Transport by sea

Special provisions (IMDG) 223. 274 Packing instructions (IMDG) P002, LP02 EmS-No. (Fire) F-A EmS-No. (Spillage) S-B

Stowage category (IMDG) Α

- Air transport

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

- Rail transport

274 Special provisions (RID)

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

Carriage prohibited (RID) No

22.06.2020 EN (English) 24/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Water hazard class (WGK) awg, Hazardous to water in general (generally water endagering Reference to AwSV

(AwSV §3 section (2)))

Storage class (LGK) LGK 6.1C - Combustible substances of acute toxicity, category 3 /

hazardous substances that are toxic or produce chronic

Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

GISCODE RE90 - Epoxy resin products, toxic for reproduction and/or mutagenic, sensitising, low in

solvents or total solid

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
9.1	рН	Added	
14	Transport information	Modified	
16	Additional information	Added	

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

22.06.2020 EN (English) 25/26



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Other information

None.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 1B	Reproductive toxicity, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H341	Suspected of causing genetic defects.
H360	May damage fertility or the unborn child.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

		<u> </u>
Skin Corr. 1C	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Muta. 2	H341	Expert judgment
Repr. 1B	H360	Expert judgment
Aquatic Chronic 2	H411	Calculation method

SDS_EU_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.

22.06.2020 EN (English) 26/26