

HIT-RE 100-HC

Safety information for 2-Component-products

Issue date: 11/05/2020 Revision date: 11/05/2020 Supersedes: 05/08/2019 Version: 1.1

SECTION 1: Kit identification

1.1 Product identifier

Product name HIT-RE 100-HC
Product code BU Anchor

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

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

SECTION 2: General information

Storage Storage temperature : 5 - 25 °C

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

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

SECTION 3:

Classification of the Product

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

 Acute Tox. 5 (Oral)
 H303

 Skin Corr. 1B
 H314

 Skin Sens. 1
 H317

 Muta. 2
 H341

 Repr. 1B
 H360

 Aquatic Acute 2
 H401

 Aquatic Chronic 2
 H411

Label elements

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

Hazard pictograms (GHS UN)

Signal word (GHS UN)







GHS08



GHS05 Danger

Hazardous ingredients Epoxy resin, Amines

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

H317 - May cause an allergic skin reaction. H341 - Suspected of causing genetic defects.

GHS07

H360 - May damage fertility.

H411 - Toxic to aquatic life with long lasting effects.

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

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

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

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

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HIT-RE 100-HC

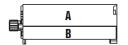
Safety information for 2-Component-products

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



Name	General description	Quantity	Unit	Classification according to the United Nations GHS
HIT-RE 100-HC, B		1	pcs	Acute Tox. 5 (Oral), H303 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
HIT-RE 100-HC, A		1	pcs	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

SECTION 4: General advice

General advice For professional users only

SECTION 5: Safe handling advice

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

Notify authorities if liquid enters sewers or public waters

Avoid release to the environment

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

with official regulations.

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

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

Technical measures Comply with applicable regulations Wear personal protective equipment Precautions for safe handling

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.

Collect spillage. For containment Sources of ignition Incompatible materials Direct sunlight Incompatible products Strong bases

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

Strong acids

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HIT-RE 100-HC

Safety information for 2-Component-products

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 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

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

Issue date: 11/05/2020 Revision date: 11/05/2020

Supersedes: 05/08/2019

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SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture

Product name HIT-RE 100-HC, A

UN-No. (ADR) 1759
Product code BU Anchor

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

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

Recommended use For professional use only

1.4. Supplier's details

Supplier

Hilti (South Africa) (Pty) Ltd.

2 Tugela Lane, Waterfall Logistics Precinct

Corner Bridal Veil Road and R101

2090 Midrand - South Africa

T +2711 237300 - F +2711 2373111

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6

86916 Kaufering - Deutschland

T+49 8191 906876

1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+2711 237300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin corrosion/irritation, Category 2 H315 Calculation method
Serious eye damage/eye irritation, Category 1 H318 Calculation method
Skin sensitisation, Category 1 H317 Calculation method
Germ cell mutagenicity, Category 2 H341

Reproductive toxicity, Category 1B H360 Calculation method Hazardous to the aquatic environment — Acute H401 Calculation method Hazard, Category 2

Hazardous to the aguatic environment — Chronic H411 Calculation method

Hazard, Category 2

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Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)



GHS05







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

Signal word (GHS UN) Danger

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

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; trimethylolpropane

triglycidylether

Hazard statements (GHS UN)

H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage

H341 - Suspected of causing genetic defects

H360 - May damage fertility.

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS UN) P262 - Do not get in eyes, on skin, or on clothing.

P280 - Wear eye protection, protective clothing, protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

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

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

Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

Substances

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	Classification according to the United Nations GHS
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	(CAS-No.) 1675-54-3	25 - 35	Flammable liquids Not classified Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Acute Hazard, Category 2, H401 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
Formaldehyde, oligomeric reaction products with 1-chloro- 2,3-epoxypropane and phenol	(CAS-No.) 9003-36-5	5 - 15	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
Benzyl alcohol	(CAS-No.) 100-51-6	2,5 - 10	Acute toxicity (oral), Category 4, H302 Serious eye damage/eye irritation, Category 2A, H319
trimethylolpropane triglycidylether	(CAS-No.) 30499-70-8	1 - 5	Skin corrosion/irritation, Category 1C, H314 Serious eye damage/eye irritation, Category 1, H318 Skin sensitisation, category 1B, H317 Germ cell mutagenicity, Category 2, H341 Reproductive toxicity, Category 1B, H360 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411

Full text of H-statements: see section 16

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

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

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

advice (show the label where possible).

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

breathe fresh air. Allow the victim to rest.

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

skin irritation occurs: Get immediate medical advice/attention.

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

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

Rinse mouth. Get medical advice/attention. Do not induce vomiting. Obtain emergency

medical attention.

4.2. Most important symptoms/effects, acute and delayed

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

Symptoms/effects after skin contact Causes skin irritation.

Symptoms/effects after eye contact Causes serious eye irritation.

Potential adverse human health effects and

symptoms

No additional information available.

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

No additional information available

First-aid measures after ingestion

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of

fire

Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

5.3. Special protective actions for fire-fighters

Firefighting instructions

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

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

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

equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

Emergency procedures Ventilate area.

6.2. Environmental precautions

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

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6.3. Methods and materials for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

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

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

containers. Store away from other materials.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

leaving work.

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.

Storage temperature 5 – 25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

relevant for this product.

8.2. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.

Environmental exposure controls Avoid release to the environment.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

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

8.3. Individual protection measures, such as personal protective equipment (PPE)

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

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

substances may shorten the protective function's effective duration.

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

Eye protection Wear security glasses which protect from splashes

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

Skin and body protection Wear suitable protective clothing

Personal protective equipment symbol(s)

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8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste

Colour Light grey.
Odour Sweet.

Not available Odour threshold Melting point Not available Freezing point Not available Not available Boiling point Flammability (solid, gas) Not available **Explosive limits** Not applicable Lower explosive limit (LEL) Not applicable Upper explosive limit (UEL) Not applicable Flash point Not applicable Auto-ignition temperature Not applicable Decomposition temperature Not available

pH 6.3

pH solution Not available Viscosity, kinematic (calculated value) (40 °C) Not applicable Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50 °C Not available 1,51 g/cm³ Density Relative density Not available Relative vapour density at 20 °C Not applicable Solubility Not available Not available Particle size Particle size distribution Not available Not available Particle shape Particle aspect ratio Not available Not available Particle specific surface area

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

No additional information available

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

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

Benzyl alcohol (100-51-6)			
LD50 oral rat	1620 mg/kg		
LC50 inhalation rat (mg/l)	> 4178 mg/m³		
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)		
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)			
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)		

Skin corrosion/irritation Causes skin irritation.

pH: 6,3

Serious eye damage/irritation Causes serious eye damage.

pH: 6,3

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Suspected of causing genetic defects.

Carcinogenicity Not classified

Reproductive toxicity May damage fertility.

STOT-single exposure Not classified STOT-repeated exposure Not classified Aspiration hazard Not classified

Potential adverse human health effects and

symptoms

No additional information available.

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

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)

Toxic to aquatic life.

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

Calculation method

Hazardous to the aquatic environment, long-term

Toxic to aquatic life with long lasting effects.

(chronic)
Classification procedure (Hazardous to the

Calculation method

aquatic environment, long-term (chronic))

2,2'-[(1-methylethylidene)bis(4,1-phe	enyleneoxymethylene)]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)
LC50 fish 2	2,3 mg/l (96 h; Oncorhynchus mykiss; 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)
EC50 72h algae (1)	9,4 mg/l (EPA 660/3 - 75/009, Selenastrum capricornutum, Static system, Fresh water,
	Experimental value, Biomass)
Threshold limit algae 1	> 11 mg/l (72 h; Scenedesmus sp.)
Threshold limit algae 2	4,2 mg/l (72 h; Scenedesmus sp.)

12.2. Persistence and degradability

HIT-RE 100-HC, A	
Persistence and degradability	May cause long-term adverse effects in the environment.

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)

Not rapidly degradable

2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)

Not rapidly degradable

Persistence and degradability Not readily biodegradable in water.

trimethylolpropane triglycidylether (30499-70-8)

Not rapidly degradable

12.3. Bioaccumulative potential

HIT-RE 100-HC, A			
Bioaccumulative potential	Not established.		
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane (1675-54-3)			
BCF other aquatic organisms 1	31 (Estimated value, Fresh weight)		

12.4. Mobility in soil

HIT-RE 100-HC, A	
Mobility in soil	No additional information available
2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxym	nethylene)]bisoxirane (1675-54-3)
Surface tension	59 mN/m (20 °C, 0.09 g/l)
Partition coefficient n-octanol/water (Log Koc)	2,65 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	Low potential for adsorption in soil

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12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Product/Packaging disposal recommendations

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

emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product: Dispose in a safe manner in

accordance with local/national regulations.

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

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

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Safety Data Sheet

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

14.6. Special precautions for user

Overland transport

Classification code (ADR)

Special provisions (ADR)

Limited quantities (ADR)

C10

274

5kg

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

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

Transport category (ADR) 3
Orange plates

80 1759

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)

Stowage Category (IMDG)

Air transport

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

Rail transport

Special provisions (RID) 274

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

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

Not applicable

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

 SDS Major/Minor
 None

 Issue date
 11/05/2020

 Revision date
 11/05/2020

 Supersedes
 05/08/2019

Section	Changed item	Change	Comments
2.1	Classification (GHS UN)	Modified	
3	Composition/information on ingredients	Modified	

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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

EC50 - Median effective concentration

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

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

vPvB - Very Persistent and Very Bioaccumulative

SDS - Safety Data Sheet

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

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

(EC) No 1907/2006

PNEC - Predicted No-Effect Concentration

PBT - Persistent Bioaccumulative Toxic

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

OECD - Organisation for Economic Co-operation and Development

Full text of H-statements:		
H302	Harmful if swallowed	
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	
H341	Suspected of causing genetic defects	
H360	May damage fertility or the unborn child	
H401	Toxic to aquatic life	
H411	Toxic to aquatic life with long lasting effects	

SDS_UN_Hilti

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

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Issue date: 05/11/2020 Revision date: 05/11/2020

Supersedes: 05/08/2019

Version: 1.1

SECTION 1: Identification

1.1. GHS Product identifier

Product form Mixture

Product name HIT-RE 100-HC, B

UN-No. (ADR) 3259
Product code BU Anchor

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

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

Recommended use For professional use only

1.4. Supplier's details

Supplier

Hilti (South Africa) (Pty) Ltd.

2 Tugela Lane, Waterfall Logistics Precinct

Corner Bridal Veil Road and R101

2090 Midrand - South Africa

T +2711 237300 - F +2711 2373111

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6

86916 Kaufering - Deutschland

T +49 8191 906876

1.5. Emergency phone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

+2711 237300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 5 H303
Skin corrosion/irritation, Category 1B H314
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Acute H402

Hazard, Category 3

Hazardous to the aquatic environment — Chronic

Hazard, Category 3

Full text of H statements : see section 16

Calculation method

Expert judgment

Calculation method
Calculation method

Calculation method

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)

Signal word (GHS UN)



H412



GHS05

Danger

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Hazardous ingredients Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and

ethenylbenzene; m-Xylylenediamine

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

H317 - May cause an allergic skin reaction H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS UN)

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

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

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

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

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

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

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

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
m-Xylylenediamine	(CAS-No.) 1477-55-0	10 – 25	Acute toxicity (oral), Category 4, H302 Acute toxicity (inhalation:dust,mist) Category 4, H332 Skin corrosion/irritation, Category 1B, H314 Serious eye damage/eye irritation, Category 1, H318 Skin sensitisation, category 1B, H317 Hazardous to the aquatic environment — Acute Hazard, Category 3, H402 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412
Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene	(CAS-No.) 710292-85-6	5 - 15	Skin sensitisation, category 1B, H317 Hazardous to the aquatic environment — Acute Hazard, Category 2, H401 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
resorcinol	(CAS-No.) 108-46-3	0,1 – 1	Acute toxicity (oral), Category 4, H302 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 1, H318 Skin sensitisation, category 1B, H317 Specific target organ toxicity — single exposure, Category 1, H370 Specific target organ toxicity — Single exposure, Category 2, H371 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412

Full text of H-statements: see section 16

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SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

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

advice (show the label where possible).

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

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

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

advice/attention.

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

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

Continue rinsing. Consult an eye specialist.

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

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects Causes severe skin burns and eye damage.

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

Symptoms/effects after eye contact Causes serious eye damage.

Potential adverse human health effects and No additional information available.

symptoms

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

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

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

fire

5.3. Special protective actions for fire-fighters

Firefighting instructions

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

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

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

equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

Emergency procedures Ventilate area.

6.2. Environmental precautions

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

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6.3. Methods and materials for containment and cleaning up

For containment Collect spillage.

Methods for cleaning up

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

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

containers. Store away from other materials.

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

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

leaving work. Avoid contact during pregnancy/while nursing.

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

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

contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Comply with applicable regulations.

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

Incompatible products

Incompatible materials

Strong bases. Strong acids.

Sources of ignition. Direct sunlight.

Keep away from heat and direct sunlight.

Storage temperature 5-25 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

relevant for this product.

8.2. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.

Environmental exposure controls Avoid release to the environment.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

Other information

Do not eat, drink or smoke during use.

8.3. Individual protection measures, such as personal protective equipment (PPE)

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

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

substances may shorten the protective function's effective duration.

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

Eye protection Wear security glasses which protect from splashes

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

Skin and body protection Wear suitable protective clothing

Personal protective equipment symbol(s)

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8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste

Colour red.

Odour Amine-like. Not available Odour threshold Melting point Not available Freezing point Not available Not available Boiling point Flammability (solid, gas) Non flammable. **Explosive limits** Not applicable Lower explosive limit (LEL) Not applicable Upper explosive limit (UEL) Not applicable Flash point Not applicable Auto-ignition temperature Not applicable Not available Decomposition temperature

pH 11,5

pH solution

Not available

Viscosity, kinematic (calculated value) (40 °C)

Partition coefficient n-octanol/water (Log Kow)

Vapour pressure

Vapour pressure at 50 °C

Not available

Not available

Density 1,75 g/cm³ DIN EN ISO 1183-3

Relative density

Relative vapour density at 20 °C

Not applicable

Solubility

insoluble in water.

Viscosity, dynamic 172 Pa·s Instruction No.050803-11

Particle size Not available
Particle size distribution Not available
Particle shape Not available
Particle aspect ratio Not available
Particle specific surface area Not available

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

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) May be harmful if swallowed.

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

ATE UN (oral) 2981,838 mg/kg bodyweight

Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)		
LD50 oral rat	> 2000 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
resorcinol (108-46-3)		
LD50 oral	301 mg/kg	
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	

Skin corrosion/irritation Causes severe skin burns.

pH: 11,5

pH: 11,5

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity
Carcinogenicity
Not classified
Reproductive toxicity
Not classified
STOT-single exposure
Not classified
STOT-repeated exposure
Not classified
Aspiration hazard
Not classified

HIT-RE 100-HC, B	
Viscosity, kinematic	98285,714 mm²/s

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Potential adverse human health effects and

No additional information available.

symptoms

SECTION 12: Ecological information

Toxicity

Ecology - water

Hazardous to the aquatic environment, short-

term (acute)

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

Hazardous to the aquatic environment, long-term

(chronic)

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

Harmful to aquatic life with long lasting effects.

Harmful to aquatic life.

Calculation method

Harmful to aquatic life with long lasting effects.

Calculation method

Formaldehyde, telomer with 1,3-benzene	edimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)	
LC50 fish 1	≥ 50 mg/l	
LC50 other aquatic organisms 1	≥ 31,8 mg/l	
EC50 Daphnia 1	2,4 mg/l	
NOEC chronic algae	6,25 mg/l	
resorcinol (108-46-3)		
EC50 Daphnia 1	1,28 mg/l	
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	

Persistence and degradability 12.2.

HIT-RE 100-HC, B	
Persistence and degradability	May cause long-term adverse effects in the environment.
m-Xylylenediamine (1477-55-0)	
,	
Not rapidly degradable	

12.3. **Bioaccumulative potential**

HIT-RE 100-HC, B	
Bioaccumulative potential	Not established.
Formaldehyde, telomer with 1,3-benzenedimeth	anamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)
Bioconcentration factor (BCF REACH)	≥ 12,9
Partition coefficient n-octanol/water (Log Kow)	5.14

12.4. Mobility in soil

HIT-RE 100-HC, B	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone Not classified

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Other adverse effects No additional information available

Other information Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

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

emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in

accordance with local/national regulations.

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

ADR	IMDG	IATA	RID
14.1. UN number			
UN 3259	UN 3259	UN 3259	UN 3259
14.2. UN proper shipping nam	е		
AMINES, SOLID, CORROSIVE, N.O.S. (m-Xylylenediamine)	AMINES, SOLID, CORROSIVE, N.O.S. (m-Xylylenediamine)	Amines, solid, corrosive, n.o.s. (m- Xylylenediamine)	AMINES, SOLID, CORROSIVE, N.O.S. (m-Xylylenediamine)
Transport document description			
UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (m- Xylylenediamine), 8, II, (E)	UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (m- Xylylenediamine), 8, II	UN 3259 Amines, solid, corrosive, n.o.s. (m-Xylylenediamine), 8, II	UN 3259 AMINES, SOLID, CORROSIVE, N.O.S. (m- Xylylenediamine), 8, II
14.3. Transport hazard class(e	es)		
8	8	8	8
8	B	3	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 availa	able		

14.6. Special precautions for user

Overland transport

Classification code (ADR)	C8
Special provisions (ADR)	274
Limited quantities (ADR)	1kg

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P002, IBC08 Packing instructions (ADR) MP10 Mixed packing provisions (ADR) 2

Transport category (ADR)

Orange plates 80 3259

Е Tunnel restriction code (ADR)

Transport by sea

Special provisions (IMDG) 274 Limited quantities (IMDG) 1 kg Packing instructions (IMDG) P002 EmS-No. (Fire) F-A EmS-No. (Spillage) S-B Stowage category (IMDG) Α MFAG-No 154

Air transport

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

Rail transport

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

Packing instructions (RID) P002, IBC08

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

Not applicable

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

SDS Major/Minor None 05/11/2020 Issue date Revision date 05/11/2020 Supersedes 05/08/2019

Section	Changed item	Change	Comments
2.1	Classification (GHS UN)	Modified	
3	Composition/information on ingredients	Modified	

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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

EC50 - Median effective concentration

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

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

NOEC - No-Observed Effect Concentration

NOAEL - No-Observed Adverse Effect Level

OECD - Organisation for Economic Co-operation and Development

PBT - Persistent Bioaccumulative Toxic

PNEC - Predicted No-Effect Concentration

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

vPvB - Very Persistent and Very Bioaccumulative

SDS - Safety Data Sheet

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

None.

Other information

Full text of H-statements:		
H302	Harmful if swallowed	
H303	May be harmful if swallowed	
H314	Causes severe skin burns and eye damage	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H332	Harmful if inhaled	
H370	Causes damage to organs	
H371	May cause damage to organs	
H400	Very toxic to aquatic life	
H401	Toxic to aquatic life	
H402	Harmful to aquatic life	
H411	Toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

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

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