

## **HIT-RE 100**

## Safety information for 2-Component-products

Issue date: 11/05/2020

Revision date: 11/05/2020

Supersedes: 11/07/2018

Version: 3.0

## **SECTION 1: Kit identification**

#### **1.1 Product identifier**

Product name



Product code

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

Hilti India Private Limited F-90/4. Okhla Industrial Area Phase 1 110 020 New Delhi - India T +9111 4270 1111 - F +91 405 23318

## **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. 4 (Oral)	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Muta. 2	H341
Repr. 1B	H360
Aquatic Acute 2	H401
Aquatic Chronic 2	H411
Repr. 1B Aquatic Acute 2	H360 H401

#### Label elements

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

Hazard pictograms (GHS UN)				¥2
	GHS05	GHS07	GHS08	GHS09
Signal word (GHS UN)	Danger			
Hazardous ingredients	Epoxy resin, Amine	es		
Hazard statements (GHS UN)	H314 - Causes sev H317 - May cause H341 - Suspected H360F - May dama H411 - Toxic to aq	an allergic skin of causing gene age fertility.	reaction. tic defects.	-
Precautionary statements (GHS UN)	P280 - Wear eye p	protection, protection	ctive clothing, p	protective gloves.



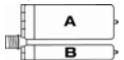
## HIT-RE 100

Safety information for 2-Component-products

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 the United Nations GHS
HIT-RE 100, A		1	pcs	Skin Corr. 1C, H314 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
HIT-RE 100, B		1	pcs	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

## **SECTION 4: General advice**

General advice

For professional users only

General measures	Spilled material may present a slipping hazard
Environmental precautions	Prevent entry to sewers and public waters Notify authorities if liquid enters sewers or public waters Avoid release to the environment Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. After curing, the product can be disposed of with household waste.
Storage conditions	Protect from sunlight. Store in a well-ventilated place.
Technical measures	Comply with applicable regulations
Precautions for safe handling	Wear personal protective equipment Avoid contact with skin and eyes Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work Avoid contact during pregnancy/while nursing
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation Mechanically recover the product On land, sweep or shovel into suitable containers Store away from other materials.
For containment	Collect spillage.
Incompatible materials	Sources of ignition Direct sunlight
Incompatible products	Strong bases Strong acids



## **HIT-RE 100**

Safety information for 2-Component-products

#### **SECTION 6: First aid measures** Get immediate medical advice/attention. First-aid measures after eye contact Immediately rinse with water for a prolonged period while holding the eyelids wide open Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist First-aid measures after ingestion Do not induce vomiting Rinse mouth Immediately call a POISON CENTER/doctor. First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact Wash with plenty of water/... Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get immediate medical advice/attention. Never give anything by mouth to an unconscious person First-aid measures general If you feel unwell, seek medical advice (show the label where possible) Symptoms/effects Causes severe skin burns and eye damage. Symptoms/effects after eye contact Causes serious eye damage. Symptoms/effects after inhalation May cause an allergic skin reaction. SECTION 7: Fire fighting measures

Firefighting instructions	Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment
Protection during firefighting	Self-contained breathing apparatus Do not enter fire area without proper protective equipment, including respiratory protection
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide Carbon monoxide

## **SECTION 8: Other information**

No data available



## HIT-RE 100, B Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011) Issue date: 11/05/2020

Revision date: 11/05/2020

Supersedes: 11/07/2018

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

Version: 2.0

1.1. Product identifier	
Product form	Mixture
Product name	HIT-RE 100, B
	3259
UN-No. (ADR)	
Product code	BU Anchor
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
Use of the substance/mixture	For professional use only Composite mortar component for fasteners in the construction industry
1.3. Details of the supplier of the safety da	ata sheet
Supplier Hilti India Private Limited F-90/4, Okhla Industrial Area Phase 1 110 020 New Delhi - India T +9111 4270 1111 - F +91 405 23318	Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland T +49 8191 906876 anchor.hse@hilti.com
1.4. Emergency telephone number	
Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service
	+41 44 251 51 51 (international)
	+9111 4064 6500 +9111 4270 1122

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to the United Nations GHS (I	Rev. 4, 2011)
Acute Tox. 4 (Oral)	H302
Skin Corr. 1B	H314
Skin Sens. 1	H317
Aquatic Acute 3	H402
Aquatic Chronic 3	H412
Full text of H statements : see section 16	

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

#### 2.2. Label elements

Hazard pictograms (GHS UN)

	GHS05 GHS07
Signal word (GHS UN)	Danger
Hazardous ingredients	Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene; resorcinol; 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





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

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

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	25 - 40	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	10 - 25	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

## 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.



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

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 e	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 Potential adverse human health effects and symptoms May causes severe skin burns and eye dama May cause an allergic skin reaction. Causes serious eye damage. No additional information available.

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

No additional information available

SECTION 5: Firefighting mea	asures
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	he substance or mixture
No additional information available	

#### 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 releas	se measures
6.1. Personal precautions, protective	e equipment and emergency procedures
General measures	Spilled material may present a slipping hazard.
6.1.1.For non-emergency personnel	
Emergency procedures	Evacuate unnecessary personnel.
6.1.2.For emergency responders	
Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area.

### 6.2. Environmental precautions

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

6.3. Methods and 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.	



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

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	g 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.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Hand protection

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)

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)	Penetrati on	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		



Safety Data Sheet

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

Skin and body protection

Wear suitable protective clothing



### 8.4. Exposure limit values for the other components

No additional information available

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

ern materialien en saere physical ana ene	inical properties
Physical state	Solid
Appearance	Thixotropic paste.
Colour	Red-brown to black.
Odour	Amine-like.
Odour threshold	No data available
рН	11.5
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
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	1.41 g/cm3 DIN EN ISO 1183-3
Solubility	insoluble in water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	43 - 57 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

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

Corrosive vapours.

#### 10.2. Chemical stability

Stable under normal conditions.



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

## 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)	Harmful if swallowed.
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
ATE CLP (oral)	1706.776 mg/kg bodyweight
Formaldehyde, telomer with 1,3-benzenedim	ethanamine, 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 and eye damage.
	pH: 11.5
Serious eye damage/irritation	Serious eye damage, category 1, implicit
	pH: 11.5
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	No additional information available.

## **SECTION 12: Ecological information**

## 12.1. Toxicity Ecology - water

Harmful to aquatic life with long lasting effects.



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

Hazardous to the aquatic environment, short- term (acute)	Harmful to aquatic life.
Classification procedure (Hazardous to the aquatic environment, short-term (acute))	Expert judgment
Hazardous to the aquatic environment, long- term (chronic)	Harmful to aquatic life with long lasting effects.
Classification procedure (Hazardous to the aquatic environment, long-term (chronic))	Expert judgment
Formaldehyde, telomer with 1,3-benzenedim	ethanamine, 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

### 12.2. Persistence and degradability

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

## 12.3. Bioaccumulative potential

-RE 100, B		
accumulative potential	Not established.	
Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)		
concentration factor (BCF REACH)	>= 12.9	
Pow	5.14	
Pow	5.14	

## 12.4. Mobility in soil

Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)		
Log Pow	See section 12.1 on ecotoxicology	
209 . 01		

### 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. 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/national regulations.
Ecology - waste materials	Avoid release to the environment.



Safety Data Sheet

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

## **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	RID	
14.1. UN number				
3259	3259	3259	3259	
14.2. UN proper shipping na	ame			
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 descriptio	on			
	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	s(es)			
8	8	8	8	
8			8	
14.4. Packing group				
II	II	П	П	
14.5. Environmental hazards				
	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	
No supplementary information available				

## 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR)	C8
Special provisions (ADR)	274
Limited quantities (ADR)	1kg
Packing instructions (ADR)	P002, IBC08
Mixed packing provisions (ADR)	MP10
Transport category (ADR)	2
Orange plates	80
	3259
	5257
Tunnel restriction code (ADR)	E
Tunnel restriction code (ADR)	
- Transport by sea	E
- Transport by sea Special provisions (IMDG)	E 274
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG)	E 274 1 kg
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Packing instructions (IMDG)	E 274 1 kg P002
- Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Packing instructions (IMDG) EmS-No. (Fire)	E 274 1 kg P002 F-A

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

Stowage and segregation (IMDG) MFAG-No	Separated from' acids. 154
- Air transport	
PCA packing instructions (IATA)	859
PCA max net quantity (IATA)	15kg
CAO packing instructions (IATA)	863
Special provisions (IATA)	A3
- Rail transport	
Special provisions (RID)	274
Limited quantities (RID)	1kg
Packing instructions (RID)	P002, IBC08
Carriage prohibited (RID)	No

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

## **SECTION 15: Regulatory information**

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

No additional information available

## **SECTION 16: Other information**

SDS Major/Minor	None
Issue date	11/05/2020
Revision date	11/05/2020
Supersedes	11/07/2018

Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification (GHS UN)	Modified	
2.2	Hazard statements (GHS UN)	Modified	
16	Additional information	Added	



## Safety Data Sheet

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

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
	NOAEL - No-Observed Adverse Effect Level
	NOEC - No-Observed Effect Concentration
	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
	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-statements:	

Full text of H-statements:

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.		
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.		

## 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.



## HIT-RE 100, A Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011) Issue date: 11/05/2020

Revision date: 11/05/2020

Supersedes: 11/07/2018

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

Version: 3.0

1.1. Product identifier			
Product form	Mixture		
Product name	HIT-RE 100, A		
UN-No. (ADR)	1759		
Product code	BU Anchor		
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against		
Use of the substance/mixture	For professional use only Composite mortar component for fasteners in the construction industry		
1.3. Details of the supplier of the safet	ty data sheet		
Supplier Hilti India Private Limited F-90/4, Okhla Industrial Area Phase 1 110 020 New Delhi - India T +9111 4270 1111 - F +91 405 23318	Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland T +49 8191 906876 anchor.hse@hilti.com		
1.4. Emergency telephone number			
Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +9111 4064 6500 +9111 4270 1122		

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to the United Nations GHS (I	Rev. 4, 2011)
Skin Corr. 1C	H314
Skin Sens. 1	H317
Muta. 2	H341
Repr. 1B	H360
Aquatic Acute 2	H401
Aquatic Chronic 2	H411
Full text of H statements : see section 16	

### 2.2. Label elements

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

Hazard pictograms (GHS UN)		
	GHS05 GHS07 GHS08 GHS09	
Signal word (GHS UN)	Danger	
Hazardous ingredients	Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol ; Reaction products of hexane-1,6-diol with 2-(chloromethyl); 2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane; trimethylolpropane triglycidylether	
Hazard statements (GHS UN)	<ul> <li>H314 - Causes severe skin burns and eye damage.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H341 - Suspected of causing genetic defects.</li> <li>H360 - May damage fertility</li> </ul>	





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

#### 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 the United Nations GHS
2,2'-[(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	(CAS-No.) 1675-54-3	25 - 40	Flammable liquids Not classified Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Acute Hazard, Category 2, H401 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
Formaldehyde, oligomeric reaction products with 1-chloro-2,3- epoxypropane and phenol	(CAS-No.) 9003-36-5	10 - 25	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
Reaction products of hexane-1,6-diol with 2-(chloromethyl)	(CAS-No.) 933999-84-9	10 - 25	Flammable liquids Not classified Acute toxicity (oral), Category 5, H303 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 3, H402 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412
trimethylolpropane triglycidylether	(CAS-No.) 30499-70-8	5 - 10	Skin corrosion/irritation, Category 1C, H314 Serious eye damage/eye irritation, Category 1, H318 Skin sensitisation, category 1B, H317 Germ cell mutagenicity, Category 2, H341 Reproductive toxicity, Category 1B, H360 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411

Full text of H-statements: see section 16



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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.

No additional information available.

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

No additional information available

symptoms

Potential adverse human health effects and

SECTION 5: Firefighting mea	asures			
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				
No additional information available				
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 equip	oment 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.			



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### 6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up			
For containment	Collect spillage.		
Methods for cleaning up	This material and its container must be disposed of in a safe way, and as per local legislation. Mechanically recover the product. On land, sweep or shovel into suitable containers. Store away from other materials.		
Other information	Dispose of materials or solid residues at an authorized site.		

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
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	g any incompatibilities
Storage conditions	Protect from sunlight.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.

Keep away from heat and direct sunlight.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Heat and ignition sources

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)	Penetrati on	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4		EN 374



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Eye protection		Wear security glasses which protect from splashes	
Туре	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170
Skin and body		Wear suitable protective clothing	

protection



#### 8.4. Exposure limit values for the other components

No additional information available

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

or in morthadion on Bablo physical and of	
Physical state	Solid
Appearance	Thixotropic paste.
Colour	Light grey.
Odour	characteristic.
Odour threshold	No data available
рН	6.2
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
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	1.46 g/ml DIN EN ISO 1183-3
Solubility	insoluble in water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	36 - 53 Pa·s HN-0333
Explosive properties	Product is not explosive.
Oxidising properties	No data available
Explosive limits	No data available

#### 9.2. Other information

No additional information available



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## 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)	Not classified	
Acute toxicity (dermal)	Not classified	
Acute toxicity (inhalation)	Not classified	
2,2'-[(1-methylethylidene)bis(4,1-phenyleneo	xymethylene)]bisoxirane (1675-54-3)	
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)	
Formaldehyde, oligomeric reaction products	with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)	
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; ECHA)	
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; ECHA)	
Reaction products of hexane-1,6-diol with 2-	(chloromethyl) (933999-84-9)	
LD50 oral rat	3010 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
Skin corrosion/irritation	Causes severe skin burns and eye damage.	
	pH: 6.2	
Serious eye damage/irritation Serious eye damage, category 1, implicit		
pH: 6.2		
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	bosure 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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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 (chronic)	Toxic to aquatic life with long lasting effects.		
Classification procedure (Hazardous to the aquatic environment, long-term (chronic))	Calculation method		
2,2'-[(1-methylethylidene)bis(4,1-phenylened	oxymethylene)]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)		

EC30 IISH Z			
Threshold limit algae 1	> 11 mg/l (72 h; Scenedesmus sp.)		
Threshold limit algae 2	4.2 mg/l (72 h; Scenedesmus sp.)		
Reaction products of hexane-1,6-diol with 2-(chloromethyl) (933999-84-9)			
LC50 fish 1	30 mg/l		
LC50 other aquatic organisms 1	23.1 mg/l		
EC50 Daphnia 1	47 mg/l		
NOEC (acute)	18 mg/l		

### 12.2. Persistence and degradability

HIT-RE 100, A		
Persistence and degradability May cause long-term adverse effects in the environment.		
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 100, 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)		
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 Pow	See section 12.1 on ecotoxicology	
Log Koc	See section 12.1 on ecotoxicology	
Ecology - soil	Low potential for adsorption in soil.	

## 12.5. Other adverse effects

Ozone	Not classified
Other adverse effects	No additional information available
Other information	Avoid release to the environment.



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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)

Product/Packaging disposal recommendations

Disposal must be done according to official regulations.

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 / RID / IMDG / IATA / ADN

ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number			
1759	1759	1759	1759
14.2. UN proper shipping I	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 descript	ion		
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 cla	ss(es)		
8	8	8	8
14.4. Packing group	· · · · ·		
14.5. Environmental hazar	ds		
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 i	nformation available	•

## 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR)	C10
Special provisions (ADR)	274
Limited quantities (ADR)	5kg
Packing instructions (ADR)	P002, IBC08, LP02, R001
Mixed packing provisions (ADR)	MP10
Transport category (ADR)	3



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Orange plates	80 1759
Tunnel restriction code (ADR)	E
- 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)	A
- Air transport	
PCA packing instructions (IATA)	860
PCA max net quantity (IATA)	25kg
CAO packing instructions (IATA)	864
Special provisions (IATA)	A3, A803
- Rail transport	
Special provisions (RID)	274
Packing instructions (RID)	P002, IBC08, LP02, R001
Carriage prohibited (RID)	No

## **SECTION 15: Regulatory information**

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

No additional information available

## **SECTION 16: Other information**

SDS Major/Minor	None
Issue date	11/05/2020
Revision date	11/05/2020
Supersedes	11/07/2018

#### Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification (GHS UN)	Added	
2.2	Hazard statements (GHS UN)	Added	
9	рН	Added	
14	Transport information	Modified	
16	Additional information	Added	



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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
	NOAEL - No-Observed Adverse Effect Level
	NOEC - No-Observed Effect Concentration
	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
	RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
	SDS - Safety Data Sheet
	vPvB - Very Persistent and Very Bioaccumulative
Full text of H-statements:	
H303 May be harmful if swallowed	

i lext of H-statements.		
	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.
	H319	Causes serious eye irritation.
	H341	Suspected of causing genetic defects.
	H360	May damage fertility or the unborn child.
	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.