

# HIT-RE 10

#### Safety information for 2-Component-products

Issue date: 24/06/2020 Revision date: 24/06/2020 Supersedes: 03/07/2018 Version: 2.0

#### **SECTION 1: Kit identification**

#### 1.1 Product identifier

Product name HIT-RE 10
Product code BU Anchor

#### 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. 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) 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.

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.

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

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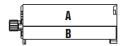
## HIT-RE 10

## Safety information for 2-Component-products

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

#### **Additional information**

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 10, 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 10, 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

Storage conditions

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. 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 bases Strong acids

## **SECTION 6: First aid measures**

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

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

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

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## HIT-RE 10

#### Safety information for 2-Component-products

Consult an eye specialist

First-aid measures after ingestion Do not induce vomiting

Rinse mouth

Immediately call a POISON CENTER/doctor.

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

First-aid measures after skin contact Wash with plenty of water/...

Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

If skin irritation or rash occurs: Get immediate medical advice/attention.

First-aid measures general Never give anything by mouth to an unconscious person

If you feel unwell, seek medical advice (show the label where possible)

Symptoms/effects Causes severe skin burns and eye damage.

Symptoms/effects after eye contact Causes serious eye damage.

Symptoms/effects after 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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## Safety Data Sheet

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

Issue date: 24/06/2020

Version: 2.0

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

#### 1.1. Product identifier

Product form Mixture
Product name HIT-RE 10, A
UN-No. (ADR) 1759
Product code BU Anchor

#### 1.2. Relevant identified uses of the substance 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 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 (Rev. 4, 2011)

 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

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)









GH

GHS09

Signal word (GHS UN) Dange

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

GHS05

Hazard statements (GHS UN) H315 - Causes skin irritation.

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

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

H341 - Suspected of causing genetic defects.

H360 - May damage fertility..

H411 - Toxic to aquatic life with long lasting effects. 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

No additional information available

Precautionary statements (GHS UN)

## **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
Benzyl alcohol	(CAS-No.) 100-51-6	5 - 10	Acute toxicity (oral), Category 4, H302 Serious eye damage/eye irritation, Category 2A, H319
trimethylolpropane triglycidylether	(CAS-No.) 30499-70-8	2.5 - 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

## **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).

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## Safety Data Sheet

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

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

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

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.

Potential adverse human health effects and symptoms

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

No additional information available

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

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.

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

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.

Ventilate area. **Emergency procedures** 

#### 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.

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

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

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

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

### 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.

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

Wear protective gloves. The permeation time Hand protection

> 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

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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

Physical state Solid

Appearance Thixotropic paste.

Colour Light grey.

Odour Sweet.

Odour threshold No data available

pH 6.3

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) No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available Density 1.51 g/cm<sup>3</sup> Solubility No data available No data available Log Pow No data available Viscosity, kinematic Viscosity, dynamic No data available No data available Explosive properties

#### 9.2. Other information

Oxidising properties

Explosive limits

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

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No data available No data available



## Safety Data Sheet

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.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

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)		
Formaldehyde, oligomeric reaction product	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)		
Benzyl alcohol (100-51-6)			
LD50 oral rat	1620 mg/kg		
LC50 inhalation rat (mg/l)	> 4178 mg/m³		

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.

## **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

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

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-phenyleneoxymethylene)]bisoxirane (1675-54-3)		
LC50 fish 1	2.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)	
EC50 Daphnia 1	2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)	
LC50 fish 2	2.3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)	
Threshold limit algae 1	> 11 mg/l (72 h; Scenedesmus sp.)	
Threshold limit algae 2	4.2 mg/l (72 h; Scenedesmus sp.)	

#### 12.2. Persistence and degradability

HIT-RE 10, 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 10, 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.

## **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.

#### **SECTION 14: Transport information**

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

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

ADR	IMDG	IATA	RID
14.1. UN number			
1759	1759	1759	1759
14.2. UN proper shipping n	name		
CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)	Corrosive solid, n.o.s. (trimethylolpropane triglycidylether)	CORROSIVE SOLID, N.O.S. (trimethylolpropane triglycidylether)
Transport document description	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 class	ss(es)		
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			

### 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

80 1759

Tunnel restriction code (ADR)

- Transport by sea

Orange plates

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

EmS-No. (Fire) F-A
EmS-No. (Spillage) S-B
Stowage category (IMDG) A

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#### - 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

#### 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
 24/06/2020

 Revision date
 24/06/2020

 Supersedes
 03/07/2018

#### Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification (GHS UN)	Added	
2.2	Hazard statements (GHS UN)	Added	
3	Composition/information on ingredients	Modified	
14	Transport information	Modified	

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## HIT-RE 10, A 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

DNEL - Derived-No Effect Level

DMEL - Derived Minimal 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

LOAEL - Lowest Observed Adverse Effect Level

NOAEC - No-Observed Adverse Effect Concentration

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

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

OECD - Organisation for Economic Co-operation and Development

PNEC - Predicted No-Effect Concentration

PBT - Persistent Bioaccumulative Toxic

vPvB - Very Persistent and Very Bioaccumulative

SDS - Safety Data Sheet

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

LD50 - Median lethal dose

#### 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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## Safety Data Sheet

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

Issue date: 24/06/2020

Version: 1.2

Revision date: 24/06/2020

Supersedes: 03/07/2018

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

#### 1.1. Product identifier

Product form Mixture
Product name HIT-RE 10, B
UN-No. (ADR) 3259
Product code BU Anchor

#### 1.2. Relevant identified uses of the substance 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 data sheet

## 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

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#### 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 (Rev. 4, 2011)

 Acute Tox. 5 (Oral)
 H303

 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)

Hazard pictograms (GHS UN)

Precautionary statements (GHS UN)

2.2. Label elements





GHS05

IS05

Signal word (GHS UN) Danger

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. 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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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

symptoms

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	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

Full text of H-statements: see section 16

#### **SECTION 4: First aid measures**

1 1	Description	of first of	d maaaaaa
4-1-	Describtion	or urst ar	o measures

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

advice (show the label where possible).

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

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

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

advice/attention.

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

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

Continue rinsing. Consult an eye specialist.

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

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

Symptoms/effects Causes severe skin burns and eye damage.

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

Symptoms/effects after eye contact Causes serious eye damage.

Potential adverse human health effects and No additional information available.

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

No additional information available

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

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.

#### 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. 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.

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#### 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.

Heat and ignition sources

Keep away from heat and direct sunlight.

## **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)	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

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

Physical state Solid

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Appearance Thixotropic paste.

Colour Black.
Odour Amine-like.

Odour threshold No data available

pH 11.5

Relative evaporation rate (butylacetate=1) No data available Melting point No data available No data available Freezing point Boiling point No data available No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available No data available Vapour pressure Relative vapour density at 20 °C No data available No data available Relative density Density 1.75 g/cm<sup>3</sup> Solubility insoluble in water.

Solubility insoluble in water.

Log Pow No data available

Viscosity, kinematic No data available

Viscosity, dynamic 150 - 185 Pa·s 25 °C

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.

### 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.

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### **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

Tormalacity de, telemental 1,0 benzenealmentalianine, 1,0 benzenealor and enterly benzene (1 10252 00 0)			
LD50 oral rat	> 2000 mg/kg		
LD50 dermal rat	> 2000 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

Formaldehyde, telomer with 1.3-benzenedimethanamine, 1.3-benzenedial and ethenylbenzene (710292-85-6)

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 Not classified Aspiration hazard

Potential adverse human health effects and

symptoms

No additional information available.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

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

Hazardous to the aquatic environment, short-

term (acute)

Harmful to aquatic life.

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

Calculation method

Hazardous to the aquatic environment, longterm (chronic)

Harmful to aquatic life with long lasting effects.

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

Calculation method

Formaldehyde, telomer with 1,3-benzenedimethanamine, 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		
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		

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

#### 12.3. Bioaccumulative potential

HIT-RE 10, B		
Bioaccumulative potential Not established.		
Formaldehyde, telomer with 1,3-benzenedimethanamine, 1,3-benzenediol and ethenylbenzene (710292-85-6)		
Bioconcentration factor (BCF REACH) >= 12.9		
Log Pow	5.14	

#### 12.4. Mobility in soil

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

#### 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.

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	IATA	RID			
14.1. UN number	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 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			

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ADR	IMDG	IATA	RID				
14.3. Transport hazard cla	14.3. Transport hazard class(es)						
8	8	8	8				
	8	***					
14.4. Packing group	· ·						
II							
14.5. Environmental hazards							
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No				
No supplementary information available							

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR)

Special provisions (ADR)

Limited quantities (ADR)

Packing instructions (ADR)

Mixed packing provisions (ADR)

Transport category (ADR)

C8

274

1kg

P002, IBC08

MP10

Transport category (ADR)

2

Transport category (ADR) 2
Orange plates

80 3259

Ε

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) A

Stowage and segregation (IMDG) Separated from acids.

MFAG-No 154

- Air transport

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

- Rail transport

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

Packing instructions (RID) P002, IBC08

Carriage prohibited (RID) No

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#### 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
 24/06/2020

 Revision date
 24/06/2020

 Supersedes
 03/07/2018

#### Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification (GHS UN)	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

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:

H302	Harmful if swallowed.	
H303	May be harmful if swallowed	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H332	Harmful if inhaled.	

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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.

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