

Version number 2

Revision: 11.08.2015

Product iden	tifier
Container siz Relevant ider	Hilti HIT-HY 110 as 330 ml, 500 ml ntified uses of the substance or mixture and uses advised against Building and construction work
	of the substance / the mixture Adhesive mortar for rebar and anchor fastenings in solid concrete
Manufacture	Trading Co., Ltd. t, Shanghai
Phone: 800-820-2585 400-820-2585	(Toll Free) (cell phone users)
Fax: +8621 64 E-mail: cncs@	
Informing de anchor.hse@l	ilti.com
Schweizerisch	elephone number: nes Toxikologisches Informationszentrum - 24 h Service 4 251 51 51 (international)
	-2585 (toll free) (mobile users)
Hazards ide	entification
	verview:
	verview: Causes serious eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life.
Grey, pasty, C Classification	verview: Causes serious eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life. a of the substance or mixture
Grey, pasty, C Classification Aquatic Acute	verview: Causes serious eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life. of the substance or mixture e 1 H400 Very toxic to aquatic life.
Grey, pasty, C Classification	verview: Causes serious eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life. a of the substance or mixture
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Grey, pasty, C Classification Aquatic Acute Eye Irrit. 2A Skin Sens. 1 Classification not applicable Xi; Sensitisin R43: May c	verview: Causes serious eye irritation. May cause an allergic skin reaction. Very toxic to aquatic life. a of the substance or mixture e 1 H400 Very toxic to aquatic life. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. according to Directive 67/548/EEC or Directive 1999/45/EC g cause sensitisation by skin contact.
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Safety data sheet according to GB/T 16483-2008 / ISO 11014

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G * 1	1 XX7 ·	(Contd. of page 1
Signal word	-	
	ermining components of labelling:	
	pyl methacrylate	
dibenzoyl po Hazard stat		
	es serious eye irritation.	
	cause an allergic skin reaction.	
	toxic to aquatic life.	
	ary statements	
P280	Wear protective gloves/protective clot	
P262	Do not get in eyes, on skin, or on cloth	
P305+P351		ater for several minutes. Remove contact lenses, if present and
D222 + D212	easy to do. Continue rinsing. If skin irritation or rash occurs: Get m	adical advice (attention
P333+P313 P337+P313		
P302+P352	IF ON SKIN: Wash with plenty of soz	
Other haza		
	PBT and vPvB assessment	
PBT: Not a		
vPvB: Not a	applicable.	
Additional	information:	
FT - D		
B	Hilti HIT	
H317 May o H319 Cause Information H317 May o	n pertaining to particular dangers for man cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life.	
H317 May o H319 Cause Information H317 May o H400 Very	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life.	
H317 May o H319 Cause Information H317 May o H400 Very	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction.	
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H317 May o H319 Cause Information H317 May o H400 Very Compositi Chemical c Description	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. con/information on ingredients haracterisation: Mixtures	
H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical of Description 2-Compone	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. fon/information on ingredients haracterisation: Mixtures I: nt-foilpack, contains:	and environment: B
H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical of Description 2-Component	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. ion/information on ingredients haracterisation: Mixtures i: nt-foilpack, contains: A: Urethane methacrylate resin, inorganic fil	and environment: B
H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical of Description 2-Component	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. fon/information on ingredients haracterisation: Mixtures I: nt-foilpack, contains:	and environment: B
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H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical of Description 2-Component Component Component Mixture of t Dangerous Dangerous	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. ion/information on ingredients haracterisation: Mixtures i: nt-foilpack, contains: A: Urethane methacrylate resin, inorganic fil B: Dibenzoyl peroxide, phlegmatized the substances listed below with harmless add components: . components A:	a and environment: B
H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical of Description 2-Component Component Component Mixture of t Dangerous Dangerous	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. ion/information on ingredients haracterisation: Mixtures t: nt-foilpack, contains: A: Urethane methacrylate resin, inorganic fil B: Dibenzoyl peroxide, phlegmatized the substances listed below with harmless add components: .	and environment: B
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H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical of Description 2-Component Component Component Mixture of t Dangerous 27813-02-1	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. ion/information on ingredients haracterisation: Mixtures i: nt-foilpack, contains: A: Urethane methacrylate resin, inorganic fil B: Dibenzoyl peroxide, phlegmatized the substances listed below with harmless add components: . components A:	and environment: B ller litions. Xi R36; Xi R43 Eye Irrit. 2A, H319; Skin Sens. 1, H317 Xi R43 10-15%
H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical of Description 2-Component Component Component Mixture of t Dangerous 27813-02-1	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. ion/information on ingredients haracterisation: Mixtures :: nt-foilpack, contains: A: Urethane methacrylate resin, inorganic fil B: Dibenzoyl peroxide, phlegmatized the substances listed below with harmless add components: . components A: Hydroxypropyl methacrylate	and environment: B ller litions. Xi R36; Xi R43 Eye Irrit. 2A, H319; Skin Sens. 1, H317
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H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical of Description 2-Component Component Component Mixture of t Dangerous 27813-02-1 2082-81-7	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. ion/information on ingredients haracterisation: Mixtures i: nt-foilpack, contains: A: Urethane methacrylate resin, inorganic fil B: Dibenzoyl peroxide, phlegmatized he substances listed below with harmless add components A: Hydroxypropyl methacrylate tetramethylene dimethacrylate	a and environment: B ller litions. Xi R36; Xi R43 Eye Irrit. 2A, H319; Skin Sens. 1, H317 Xi R43 Skin Sens. 1, H317 10-15%
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H317 May of H319 Cause Information H317 May of H400 Very Compositi Chemical c Description 2-Component Component Component Mixture of t Dangerous 27813-02-1 2082-81-7 Dangerous 94-36-0 dib Xi Or	cause an allergic skin reaction. es serious eye irritation. n pertaining to particular dangers for man cause an allergic skin reaction. toxic to aquatic life. intropromotion on ingredients haracterisation: Mixtures a: nt-foilpack, contains: A: Urethane methacrylate resin, inorganic fil B: Dibenzoyl peroxide, phlegmatized the substances listed below with harmless add components A: Hydroxypropyl methacrylate tetramethylene dimethacrylate components B: Denzoyl peroxide R36; Xi R43; E R3; O R7; N R50 g. Perox. B, H241; Aquatic Acute 1, H400 (N	a and environment: B ller litions. Xi R36; Xi R43 Eye Irrit. 2A, H319; Skin Sens. 1, H317 Xi R43 Skin Sens. 1, H317 10-15%
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Description of first aid measures
General information Instantly remove any clothing soiled by the product.
After inhalation Take affected persons into the open air and position comfortably

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- After skin contact Instantly rinse with water.
- · After eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- · After swallowing Rinse out mouth and then drink plenty of water.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed Allergic reactions
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents Sand
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards arising from the substance or mixture
- Can be released in case of fire
- Carbon monoxide (CO)
- Carbon dioxide (CO2) Nitrogen oxides (NOx)
- Under certain fire conditions, traces of other toxic gases cannot be excluded.
- · Advice for firefighters
- · Protective equipment: In the event of fire, wear self contained breathing apparatus

6 Accidental release measures

• **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Wear protective clothing.

- Keep away from ignition sources
- Environmental precautions: Do not allow to enter the ground/soil.
- · Methods and material for containment and cleaning up:
- Clean the accident area carefully; suitable cleaners are: organic solvent
- · Reference to other sections
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

7 Handling and storage

· Handling

- · Precautions for safe handling
- Check the expiry date: see imprint on manifold (month/year). Do not use expired mortar!
- The usual precautionary measures should be adhered to general rules for handling chemicals.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and containers: Keep in a cool, dry and dark place; 5 °C to 25 °C.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Protect from heat and direct sunlight.
- · Maximum storage temperature: 25 °C
- · Storage class

As per VCI (1991) storage classification concept.

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· Specific end use(s) Adhesive mortar for anchor fastenings in concrete

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

· Components with limit values that require monitoring at the workplace:

The product has a pasty consistency. Exposure limit values for respirable dusts ar not relevant for this product.

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· Inflammability (solid, gaseous)

· Ignition temperature:

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• Additional information: The lists th	at were valid during the compilation were used as basis.
· Exposure controls	
· Personal protective equipment	
• General protective and hygienic me	
Do not eat, drink or smoke while wor	
Wash hands during breaks and at the • Breathing equipment: Not required.	
· Protection of hands:	
Trotection of hundry.	
I	
Protective gloves	
EN 374 / EN 388	
	al/ the product/ the preparation by organisational measures.
• Material of gloves	eable and resistant to the product/ the substance/ the preparation.
Nitrile rubber, NBR	
Recommended thickness of the mater	rial: > 0,12 mm
	loes not only depend on the material, but also on further marks of quality and varies
from manufacturer to manufacturer. A	As the product is a preparation of several substances, the resistance of the glove
	ance and has therefore to be checked prior to the application.
• Penetration time of glove material	
	e found out by the manufacturer of the protective gloves and has to be observed.
• Not suitable are gloves made of the	following materials:
Natural rubber, NR Leather gloves	
Strong gloves	
• Eye protection:	
Safety glasses	
EN 166 / EN 170	
EN 166 / EN 170 • Body protection:	
Body protection.	
Protective work clothing	<u>.</u>
Physical and chemical propertie	A A
Thysical and chemical properties	
· Information on basic physical and	chemical properties
· General Information	
· Appearance:	
Form:	pasty
Colour: • Odour:	Grey Ester-like
· Odour: · Odour threshold:	Not determined
· pH-value:	Component A: not applicable Component B: ~ 6
~	Component D. ~ 0
· Change in condition	Not determined
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	231 °C
· Flash point:	109 °C (DIN EN ISO 1523)

Not determined

355 °C



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		(Contd. of page
Decomposition temperature:	Component A: not relevant Component B: SADT 65 °C UN test H4	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
· Critical values for explosion: Lower: Upper:	Not determined Not determined	
· Vapour pressure:	Component A: 0,1 hPa (20 °C)	
Density at 20 °C Relative density Vapour density Evaporation rate	1,7 g/cm ³ (DIN 51757) Not determined Not determined Not determined	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/wat	ter): Not determined	
· Viscosity: dynamic: kinematic:	Not applicable. Not applicable.	
· Solvent content: Organic solvents: Water: EU-VOC	0,0 % Component B: ~ 30% 0 % (2004/42/EG)	
 Other information 	No further relevant information available.	

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- No decomposition if used and stored according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- \cdot on the skin: No irritant effect.
- on the eye: No irritant effect.
- · Sensitisation: Sensitization possible by skin contact.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) None

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- \cdot Mobility in soil No further relevant information available.
- · Additional ecological information:
- According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC: None

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- \cdot General notes: The product does not contain organically bounded halogens (AOX-free).
- \cdot Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

For disposal, local regulations issued by the authorities must be observed.

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.

· European waste catalogue	
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08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
20 01 27*	paint, inks, adhesives and resins containing dangerous substances

· Uncleaned packagings:

· Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Empty packs: May be disposed via the local Green Dot collecting system or EAK waste material code 150102 (plastic packaging materials)

Transport information	
· UN-Number · ADR, ADN, IMDG, IATA	Void
· UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications. available oxygen content < 1 %
· UN "Model Regulation":	-
· HS-Code:	3214 10 10: Glaziers' putty, grafting putty, resin cements, caulking compounds and other mastics

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture • Measures for the Environmental Management of New Chemical Substances

· Chinese Chemical Inventory of Existing Chemical Substances

All ingredients are listed.

· National regulations

Council Directive 89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work. Article 12 Training of workers

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· Information about limitation of use: Employment restrictions concerning young persons must be observed.

- · Other regulations, limitations and prohibitive regulations
- Substances of very high concern (SVHC) according to REACH, Article 57 None
- · Chemical safety assessment: not required.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

_ _ _ _ _ _ _ _ _ _ _ _ .

H241 Heating may cause a fire or explosion.

.

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.

R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.

- R7 May cause fire.
- R36 Irritating to eyes.
- R43 May cause sensitisation by skin contact.

R50 Very toxic to aquatic organisms.

· Department issuing data specification sheet:

Hilti Entwicklungsgesellschaft mbH Hiltistrasse 6 D-86916 Kaufering Tel.: +49 8191 906310 Fax: +49 8191 90176310

- e-mail: anchor.hse@hilti.com • **Contact:** Mechthild Krauter
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances
- EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

- * Data compared to the previous version altered.
- 3 Composition/information on ingredients
- 7 Handling and storage
- 15 Regulatory information

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