

Version number 9

Reviewed on 03/16/2015

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1 Identification

· Product identifier

- · Trade name: Hilti HIT-HY 70
- · Container size: 330 ml, 500 ml
- \cdot Relevant identified uses of the substance or mixture and uses advised against
- \cdot Sector of Use Building and construction work
- · Application of the substance / the mixture Adhesive mortar for anchor and rebar fastenings
- Details of the supplier of the safety data sheet
 Manufacturer/Supplier: Hilti, Inc.
 5400 South 122nd East Ave.
 US-Tulsa, OK 74146
 Phone: (800) 879-8000
 Fax: (800) 879-7000
 Español: (800) 879-5000

Information department: see section 16
Emergency telephone number: Chem-Trec
Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)
Tel.: 703 527 3887 (Other countries)
Hilti, Inc.
Phone: (800) 879-8000
Fax: (800) 879-7000
Español: (800) 879-5000

2 Hazard(s) identification

· Classification of the substance or mixture

Repr. 1B	H360	May damage fertility or the unborn child.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Aquatic Chronic 3	H412	Harmful to aquatic life with long lasting effects.

· Label elements

• **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS). • **Hazard pictograms**



· Signal word Danger

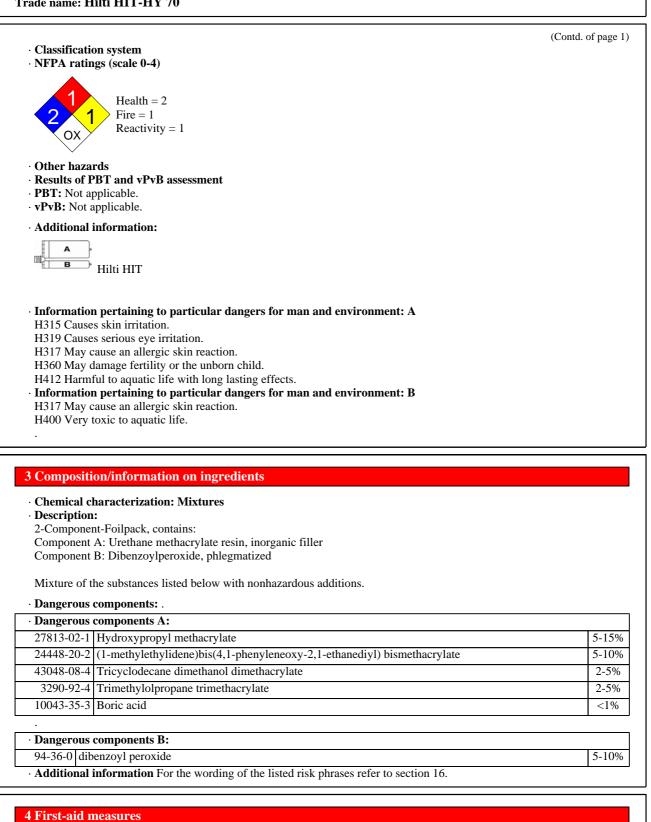
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· Hazard-determin	ing components of labeling:
Hydroxypropyl m	ethacrylate
dibenzoyl peroxid	e
Boric acid	
· Hazard statemen	ts
H315 Causes skin	irritation.
H319 Causes serie	bus eye irritation.
H317 May cause a	an allergic skin reaction.
H360 May damag	e fertility or the unborn child.
H400 Very toxic t	o aquatic life.
H412 Harmful to	aquatic life with long lasting effects.
· Precautionary sta	atements
P280	Wear protective gloves/protective clothing/eye protection/face protection.
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.

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· Description of first aid measures

· General information Immediately remove any clothing soiled by the product.

· After inhalation Take affected persons into fresh air and keep quiet.

· After skin contact Immediately wash with water and soap and rinse thoroughly.

- After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing Seek immediate medical advice.

· Information for doctor

· Most important symptoms and effects, both acute and delayed No further relevant information available.

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· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

- · Suitable extinguishing agents
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- · Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- In case of fire, the following can be released:
- Nitrogen oxides (NOx)
- Carbon monoxide (CO)
- Carbondioxide (CO2)
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

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

- · Environmental precautions:
- Do not allow to enter sewers/ surface or ground water.
- Inform respective authorities in case of seepage into water course or sewage system.
- · Methods and material for containment and cleaning up:
- Clean the affected 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 disposal information.

7 Handling and storage

· Handling

- · Precautions for safe handling
- Check the expiry date: see imprint on manifold (month/year). Do not use expired mortar!
- Keep away from heat and direct sunlight.
- The usual precautionary measures for handling chemicals should be followed.
- · 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 receptacles:
- Keep in a cool, dry and dark place; 41 °F / 5 °C to 77 °F / 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.
- Keep receptacle tightly sealed.

· Storage class

- As per VCI (1991) storage classification concept.
- 11 11

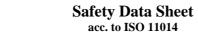
· Specific end use(s) Adhesive mortar for anchor and rebar fastenings

8 Exposure controls/personal protection

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

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Control parameters	
	alues that require monitoring at the workplace:
workplace.	ain any relevant quantities of materials with critical values that have to be monitored at the
	nsistency. Exposure limit values for respirable dusts ar not relevant for this product.
3290-92-4 Trimethylolpr	
WEEL Long-term value:	
Skin	
Additional information:	The lists that were valid during the creation were used as basis.
Exposure controls	
Personal protective equip	
General protective and h	
	easures for handling chemicals should be followed.
Avoid contact with the eye	
Do not eat, drink, smoke o Keep away from foodstuff	
Wash hands before breaks	
Breathing equipment: No	
Protection of hands:	A required.
(m)	
Protective glo	ives.
EN 374 / EN 388	
	he chemical/ the product/ the preparation by organizational measures.
	be impermeable and resistant to the product/ the substance/ the preparation.
Material of gloves	to importation and resistant to the product the substance, the proparation.
Nitrile rubber, NBR	
Recommended thickness of	f the material: $\geq 0.12 \text{ mm}$
	le gloves does not only depend on the material, but also on further marks of quality and varies
	ufacturer. As the product is a preparation of several substances, the resistance of the glove
	ted in advance and has therefore to be checked prior to the application.
Penetration time of glove	
	he has to be found out by the manufacturer of the protective gloves and has to be observed.
	ade of the following materials:
Leather gloves Strong gloves	
Eye protection:	
Lyc protection.	
Tightly sealed	l goggles.
EN 166 / EN 170	
Body protection:	
Protective wo	rk clothing
Physical and chemical	properties
Information on basic phy	vical and chemical properties
General Information	
Appearance:	
Form:	Pasty
	Light grey
Color: Odor:	Ester-like

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· Odour threshold:	Not determined	
· pH-value:	Componente A: not applicable Componente B: ~ 6	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not determined. undetermined	
· Flash point:	> 100 °C (> 212 °F) (DIN EN ISO 1523)	
· Flammability (solid, gaseous)	Not determined	
· Ignition temperature:	Not determined	
· Decomposition temperature:	Component A: not relevant Component B: SADT 65 °C UN test H4	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits: Lower: Upper:	Not determined Not determined	
· Vapor pressure:	Not determined	
 Density at 20 °C (68 °F): Relative density Vapour density Evaporation rate 	1.7 g/cm ³ (14.187 lbs/gal) (DIN 51757) Not determined. Not determined Not applicable.	
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
· Partition coefficient (n-octanol/wat	er): Not determined.	
 · Viscosity: dynamic at 20 °C (68 °F): kinematic at 20 °C (68 °F): 	~ 70 Pas (DIN 53019) >20 s (ISO 2431)	
 Solvent content: Water: Other information 	Component B: ~ 30% No further relevant information available.	

10 Stability and reactivity

· Reactivity

- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used 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:

· LD/LC50 values that are relevant for classification:

10043-35-3 Boric acid

Oral LD50 2660 mg/kg (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

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Trade name: Hilti HIT-HY 70

Irritant

· Carcinogenic categories

· NTP (National Toxicology Program)

14808-60-7 Quartz (SiO2)

12 Ecological information

· Toxicity

 Aquatic 	toxicity:
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3290-92-4 Trimethylolpropane trim	nethacrylate
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EC50/96h 4.43 mg/l (magna daphnia)

2 mg/l (fish)

· Persistence and degradability No further relevant information available.

- \cdot Behavior in environmental systems:
- \cdot Bioaccumulative potential No further relevant information available.
- \cdot Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- \cdot Additional ecological information:
- According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:
- None
- · General notes:
- The product does not contain organically bounded halogens (AOX-free).
- Harmful to aquatic organisms
- · 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

Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations.

· European waste catalogue:

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:

 \cdot **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

UN-Number	¥7. ° 1	
DOT, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name		
DOT, ADN, IMDG, IATA	Void	
ADR	Void	
Transport hazard class(es)		
•		
DOT, ADR, ADN, IMDG, IATA		
Class	Void	
Packing group		
Packing group DOT, ADR, IMDG, IATA	Void	
DOT, ADR, IMDG, IATA	Void	
DOT, ADR, IMDG, IATA Environmental hazards:		
DOT, ADR, IMDG, IATA	Void No None	



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· Special marking (IATA):	None
· Special precautions for user	Not applicable.
· Danger code (Kemler):	Void
· EMS Number:	Void
 Segregation groups 	Void
• Transport in bulk according to Annex 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	
15 Regulatory information	

Section 355 (Extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
94-36-0 Dibenzoyl peroxide	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
Proposition 65:	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
14808-60-7 Quartz (SiO2)	А
94-36-0 Dibenzoyl peroxide	А
10043-35-3 Boric acid	А
MAK (German Maximum Workplace Concentration)	
14808-60-7 Quartz (SiO2)	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
14808-60-7 Quartz (SiO2)	

· National regulations

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

· Other regulations, limitations and prohibitive regulations None

· Chemical safety assessment: not required.

16 Other information

This information is based on our present knowledge. However, this 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.

H360 May damage fertility or the unborn child.

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

- R7 May cause fire.
- R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.



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R50 Very toxic to aquatic organisms.	
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
R60 May impair fertility.	
R61 May cause harm to the unborn child.	
· Department issuing SDS:	
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	
• Date of preparation / last revision 05/18/2015 / 8	
· Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage o	f Dangerous
Goods by Road)	8
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
ACGIH: American Conference of Governmental Industrial Hygienists 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)	
NFPA: National Fire Protection Association (USA)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
Repr. 1B: Reproductive toxicity, Hazard Category 1B	
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1	
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3	
* Data compared to the previous version altered.	
	US EN -