

Safety data sheet according to 1907/2006/EC, Article 31

Version number 8

Revision: 20.11.2012

Printing date 20.11.2012 1 Identification of the substance/mixture and of the company/undertaking · Product identifier · Trade name: Hilti HIT-HY 70 · Container size 330 ml, 500 ml, 1400 ml · Relevant identified uses of the substance or mixture and uses advised against · Sector of Use Building and construction work · Application of the substance / the preparation Adhesive mortar for anchor and rebar fastenings · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Hilti South Africa 72 Gazelle Avenue, Corporate Park PO Box 5588 Halfway House 1685 Midrand Phone: 08000 23331 (Toll free) Fax: 011 237 3111 Email: Customercare.za@hilti.com · Informing department: see section 16 · Emergency telephone number: Schweizerisches Toxikologisches Informationszentrum - 24 h Service Tel.: 0041 / 44 251 51 51 (international) Hilti South Africa Phone: 08000 23331 (Toll free) Fax: 011 237 3111 2 Hazards identification · Classification of the substance or mixture Classification according to Directive 67/548/EEC or Directive 1999/45/EC Xi: Irritant R36: Irritating to eyes. Xi; Sensitising R43: May cause sensitisation by skin contact. O; Oxidising R7: May cause fire. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53: Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. · Classification system: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. · Label elements · Labelling according to EU guidelines: The product has been labelled in accordance with EC Directives / relevant national laws. The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV) Code letter and hazard designation of product: Xi Irritant O Oxidising · Hazard-determining components of labelling: dibenzoyl peroxide 2-hydroxypropyl methacrylate **Risk phrases:** May cause fire. 7 36 Irritating to eves. 43 May cause sensitisation by skin contact. 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Safety phrases: 3 Keep in a cool place. 24/25 Avoid contact with skin and eyes.

- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 26
- 28 After contact with skin, wash immediately with plenty of water and soap.

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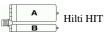
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36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

- \cdot Special labelling of certain preparations:
- Only for trade users / technical specialists
- Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Additional information:



· Information pertaining to particular dangers for man and environment: A

- R 36 Irritating to eyes
- R 43 May cause sensitisation by skin contact.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- · Information pertaining to particular dangers for man and environment: B
- R 43 May cause sensitisation by skin contact
- R 7 May cause fire

3 Composition/information on ingredients

· Chemical characterization: Mixtures

- · Description:
- 2-Component-foilpack, contains:
- Component A: Urethane methacrylate resin, inorganic filler
- Component B: Dibenzoyl peroxide, phlegmatized

Mixture of the substances listed below with harmless additions.

· Dangerous components:	
27813-02-1 methacrylic acid, monoester with propane-1,2-diol Xi R36; Xi R43	2-10%
1, H317 Eye Irrit. 2, H319; Skin Sens. 1, H317	
43048-08-4 Tricyclodecane dimethanol dimethacrylate Xi R36/38 ↓ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2-10%
3290-92-4 Trimethylolpropane trimethacrylate N R51/53 Aquatic Chronic 2, H411	2-5%
10043-35-3 boric acid T Repr. Cat. 2 R60-61 Repr. 1B, H360FD	<0,5%
94-36-0 dibenzoyl peroxide Xi R36; Xi R43; ₩ E R3; O R7 ♦ ⑦ Org. Perox. B, H241; ⑦ Eye Irrit. 2, H319; Skin Sens. 1, H317	5-10%

27813-02-1 n	nethacrylic acid, monoester with propane-1,2-diol	🗙 Xi R36; 🗙 Xi R43
		() Eye Irrit. 2, H319; Skin Sens. 1, H317
43048-08-4 T	ricyclodecane dimethanol dimethacrylate	🗙 Xi R36/38
		Skin Irrit. 2, H315; Eye Irrit. 2, H319
3290-92-4 Trimethylolpropane trimethacrylate		₩ N R51/53
		Aquatic Chronic 2, H411
10043-35-3 boric acid	oric acid	😡 T Repr. Cat. 2 R60-61
		🐼 Repr. 1B, H360FD
Dangerous co	omponents B:	
94-36-0 diber		E R3; 👌 O R7 1; 🕐 Eye Irrit. 2, H319; Skin Sens. 1, H317
	Solution of the second	1; () Eye Irrit. 2, H319; Skin Sens. 1, H317
SVHC		

· Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- · 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
- · After skin contact Instantly wash with water and soap and rinse thoroughly. If skin irritation persist, call a physician.



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- · After eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- · After swallowing Seek immediate medical advice.
- · Information for doctor
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- Suitable extinguishing agents Water spray, carbon dioxide (CO2), carbon dioxide blanket, foam, or dry powder.
- · 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.
- Can be released in case of fire
- Nitrogen oxides (NOx)
- Carbon monoxide (CO)
- Carbon dioxide (CO2)
- 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.
- Environmental precautions:
- Do not allow to enter drainage system, surface or ground water.
- Inform respective authorities in case product reaches water or sewage system.
- 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!

Keep away from heat and direct sunlight.

- 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.
- Keep container tightly sealed.
- · Storage class
- As per VCI (1991) storage classification concept.
- 11
- · Specific end use(s) Adhesive anchoring system for rebar and 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 does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- The product has a pasty consistency. Exposure limit values for respirable dusts ar not relevant for this product.
- · Additional information: The lists that were valid during the compilation were used as basis.

· Exposure controls

- · Personal protective equipment
- General protective and hygienic measures
- The usual precautionary measures should be adhered to general rules for handling chemicals.
- Avoid contact with the eyes and skin.
- Do not eat, drink or smoke while working.

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Keep away from foodstuffs, beverages a	and food.				
Wash hands during breaks and at the er	d of the work.				
• Breathing equipment: Not required. • Protection of hands:					
Protective gloves					
EN 374 / EN 388					
	the product/ the preparation by organizational measures.				
• Material of gloves	ble and resistant to the product/ the substance/ the preparation.				
Nitrile rubber, NBR					
	s not only depend on the material, but also on further marks of quality and varies from manufacturer to				
	ration of several substances, the resistance of the glove material can not be calculated in advance and has				
 therefore to be checked prior to the appl Penetration time of glove material 	ication.				
	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.				
\cdot Not suitable are gloves made of the f					
Leather gloves					
Strong gloves • Eye protection:					
Tightly sealed safety glasses.					
EN 166 / EN 170					
• Body protection: Protective work clot	hing.				
9 Physical and chemical prope	rties				
7 i hysicai and chemicai prope	1405				
· Information on basic physical and ch	nemical properties				
General Information					
· Appearance: Form:	pasty				
Colour:	Light grey				
· Odour:	Ester-like				
· Odour threshold:	Not determined				
· pH-value:	Component A: not applicable Component B: ~ 6				
· Change in condition					
Melting point/Melting range:	Not determined				
Boiling point/Boiling range:	Not determined				
· Flash point:	> 100°C (DIN 53213)				
· Inflammability (solid, gaseous)	Not determined				
· Ignition temperature:	Not determined				
· 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:	Not determined				
Upper:	Not determined				
· Vapour pressure:	Not determined				
Density at 20°C Deletive density	1,7 g/cm ³ (DIN 51757) Not determined.				
Relative density Vapour density	Not determined.				
· Evaporation rate	Not applicable.				
· Solubility in / Miscibility with					
Water:	Not miscible or difficult to mix				
· Partition coefficient (n-octanol/water	r): Not determined.				
· Viscosity:					
dynamic at 20°C:	~ 70 Pas (DIN 53788)				
kinematic at 20°C:	>20 s (DIN 53211/4)				
· Solvent content:					
Water:	Component B: ~ 30%				
· Other information	No further relevant information available.				

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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 (rango)
- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritant effect.
- · Sensitization: Sensitization possible by skin contact.
- Additional toxicological information:
- The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
- Irritant

12 Ecological information

· Toxicity

· Aquatic toxicity:

3290-92-4 Trimethylolpropane trimethacrylate

EC50/96h 4,43 mg/l (magna daphnia)

2 mg/l (fisch)

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 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. After curing, the product can be disposed of with household waste.

·European	· European waste catalogue		
	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS		
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)		
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances		
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS		
20 01 00	separately collected fractions (except 15 01)		
20 01 27*	paint, inks, adhesives and resins containing dangerous substances		
· Uncleaned	l packagings:		

· Recommendation:

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

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

14 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 II of MARPOL73/78 and the IBC Code Not applicable.		
· Transport/Additional information:	Not dangerous according to the above specifications. available oxygen content $< 1\ \%$	
· HS-Code:	3214 10 10: Glaziers' putty, grafting putty, resin cements, caulking compounds and other mastics	

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture

· National regulations

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

· Other regulations, limitations and prohibitive regulations None

· Substances of very high concern (SVHC) according to REACH, Article 57

10043-35-3 boric acid

· 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H360FD May damage fertility. May damage the unborn child.
- H411 Toxic to aquatic life with long lasting effects.
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R36 Irritating to eyes.
- R36/38 Irritating to eyes and skin.
- R43 May cause sensitisation by skin contact.
- 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.
- R7 May cause fire.

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 \cdot * Data compared to the previous version altered.