

HIT-HY 70

Safety information for 2-Component-products

Date of issue: 20/11/2018

Revision date: 20/11/2018

Supersedes: 08/12/2015

Version: 10.0

SECTION 1: Kit identification

1.1 Product identifier

Trade name



Product code

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

Hilti (Hong Kong) Ltd. 701-704, 7/F, Tower A, Manulife Financial Centre 223 Wai Yip Street, Kwun Tong Kowloon - Hong Kong T +852 27734 700 hksales@hilti.com

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)
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
	11047

H317
H360
H400
H410

Label elements

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

Hazard pictograms (GHS UN)

	GHS07 GHS08 GHS09	
Signal word (GHS UN)	Danger	
Hazardous ingredients	methacrylates, dibenzoyl peroxide	
Hazard statements (GHS UN)	 H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H360 - May damage fertility or the unborn child. H410 - Very toxic to aquatic life with long lasting effects. 	
Precautionary statements (GHS UN)	P280 - Wear eye protection, protective clothing, protective gloves.	
20/11/2018 EN (English)		



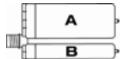
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Safety information for 2-Component-products

P262 - Do not get in eyes, on skin, or on clothing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Additional information

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



Name	General description	Quantity	Unit	Classification according to the United Nations GHS
НІТ-НҮ 70, А		1	pcs	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
НІТ-НҮ 70, В		1	pcs	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: General advice

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
Storage conditions	Keep cool. Protect from sunlight.
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 Provide good ventilation in process area to prevent formation of vapour
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 Store away from other materials.
For containment	Collect spillage.
Incompatible materials	Sources of ignition Direct sunlight
Incompatible products	Strong bases Strong acids

SECTION 6: First aid measures	
First-aid measures after eye contact	Rinse immediately with plenty of water Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists
First-aid measures after ingestion	Rinse mouth Drink plenty of water Get medical advice/attention.



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Safety information for 2-Component-products

	Do not induce vomiting Obtain emergency medical attention
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Assure fresh air breathing Allow the victim to rest
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures general	Take off immediately all contaminated clothing. Never give anything by mouth to an unconscious person If you feel unwell, seek medical advice (show the label where possible)
Symptoms/effects after eye contact	May cause severe irritation
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Other medical advice or treatment	Treat symptomatically

SECTION 7: Fire fighting measures	
Firefighting instructions	Use water spray or fog for cooling exposed containers Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment
Protection during firefighting	Self-contained breathing apparatus Do not enter fire area without proper protective equipment, including respiratory protection
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide Carbon monoxide

SECTION 8: Other information

No data available



HIT-HY 70, B Safety Data Sheet

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

Date of issue: 20/11/2018

Version: 10.0

Revision date: 20/11/2018

Supersedes: 07/12/2015

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

1.1. Product identifier				
Product form	Mixture			
Product name	HIT-HY 70, B			
Product code	BU Anchor			
1.2. Relevant identified uses of the substa	nce or mixture and uses advised against			
Use of the substance/mixture	Composite mortar component for fasteners in the construction industry			
1.3. Details of the supplier of the safety data sheet				
Supplier	Department issuing data specification sheet			
Hilti (Hong Kong) Ltd.	Hilti Entwicklungsgesellschaft mbH			
701-704, 7/F, Tower A, Manulife Financial Centre	Hiltistraße 6			
223 Wai Yip Street, Kwun Tong	86916 Kaufering - Deutschland			
Kowloon - Hong Kong	T +49 8191 906310 - F +49 8191 90176310			
T +852 27734 700	anchor.hse@hilti.com			

1.4. Emergency telephone number

Emergency number

hksales@hilti.com

Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +852 27734 700

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS (Rev. 4, 2011)
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410
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)

Signal word (GHS UN) Hazardous ingredients Hazard statements (GHS UN)

Precautionary statements (GHS UN)



H410 - Very toxic to aquatic life with long lasting effects.
 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, medical attention. P337+P313 - If eye irritation persists: Get medical advice, medical attention. P302+P352 - IF ON SKIN: Wash with plenty of water.



Safety Data Sheet

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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
dibenzoyl peroxide	(CAS-No.) 94-36-0	5 - 10	Organic Peroxides, Type B, H241 Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 (M=10) Hazardous to the aquatic environment — Chronic Hazard, Category 1, H410 (M=10)

Full text of H-statements: see section 16

SECTION 4: First aid measures

First-aid measures general	Take off immediately all contaminated clothing. 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. Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.

	,
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	May cause severe irritation.
Potential adverse human health effects and	Based on available data, the classification criteria are not met.
symptoms	

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

Treat symptomatically.

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.



Safety Data Sheet

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

5.2. Special hazards arising from the sul	ostance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	neasures
6.1. Personal precautions, protective equ	uipment 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	v authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	nt 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. Store away from other materials.
Other information	Dispose of materials or solid residues at an authorized site.
SECTION 7: Handling and storag	e
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. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, includir	ng any incompatibilities

Storage conditions	Keep cool. Protect from sunlight.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Storage temperature	5 - 25 °C
Heat and ignition sources	Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters



Safety Data Sheet

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

Additional information		The product has a pasty co for this product.	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevan for this product.		
8.2. Appropriate e	ngineering contro	ols			
Environmental expos	ure controls	Avoid release to the environ	nment.		
Consumer exposure of	controls	Avoid contact during pregn	ancy/while nursing.		
Other information		Do not eat, drink or smoke	during use.		
8.3. Individua	I protection meas	ures, such as personal protect	ive equipment (PPE)		
Hand protection		Wear protective gloves. The perme is not the maximum wearing time! (speaking, it must be reduced. Cont either mixtures of substances or dif substances may shorten the protect function's effective duration.	Generally act with ferent		
Туре	Material	Permeation	Thickness (mm)	Penetrati on	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN 374
Eye protection	·	Wear security glasses which protect splashes	t from		
Туре	Use	Characteristics	Standard		
Safety glasses	Droplet	clear	EN 166, EN 170	1	
Skin and body		Wear suitable protective clothing		1	

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	white.
Odour	characteristic.
Odour threshold	Not determined
рН	≈ 6
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	> 100 °C
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available



HIT-HY 70, B Safety Data Sheet

Callety Data Cheet

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

Relative vapour density at 20 °C	No data available	
Relative density	No data available	
Density	1.7 g/cm ³ (DIN 51757)	
Solubility	Water: Miscible with water	
Log Pow	No data available	
Viscosity, kinematic	No data available	
Viscosity, dynamic	70 - 110 Pa·s HN-0333	
Explosive properties	Product is not explosive.	
Oxidising properties	No data available	
Explosive limits	No data available	
9.2. Other information		

SADT

65 °C

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
	pH: ≈ 6
Serious eye damage/irritation	Not classified
	pH: ≈ 6
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



Safety Data Sheet

symptoms

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

STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity	
Acute aquatic toxicity	Very toxic to aquatic life.
Classification procedure (Acute aquatic toxicity)	Calculation method
Chronic aquatic toxicity	Very toxic to aquatic life with long lasting effects.
Classification procedure (Chronic aquatic toxicity)	Calculation method

dibenzoyl peroxide (94-36-0)	
EC50 Daphnia 1 0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Sta	
	system, Fresh water, Experimental value)
LC50 fish 2	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)
NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)
NOEC chronic fish	< 0.001

12.2. Persistence and degradability

HIT-HY 70, B	
Persistence and degradability	Not established.
dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

HIT-HY 70, B	
Bioaccumulative potential	Not established.
dibenzoyl peroxide (94-36-0)	
Log Pow	3.71
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

12.4. Mobility in soil

dibenzoyl peroxide (94-36-0)	
Log Pow	See section 12.1 on ecotoxicology
Log Koc	See section 12.1 on ecotoxicology
Ecology - soil	Adsorbs into the 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.



Safety Data Sheet

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

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

ADR		IMDG	ΙΑΤΑ	RID	
14.1.	UN number				
Not regula	ated	Not regulated	Not regulated	Not regulated	
14.2.	14.2. UN proper shipping name				
Not regula	ated	Not regulated	Not regulated	Not regulated	
14.3.	14.3. Transport hazard class(es)				
Not regula	ated	Not regulated	Not regulated	Not regulated	
14.4. Packing group					
Not regula	ated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards					
Not regula	ated	Not regulated	Not regulated	Not regulated	
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)					
not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7					

14.6. Special precautions for user

- Overland transport

Special provisions (ADR)	375
- Transport by sea No data available	
- Air transport Special provisions (IATA)	A197
- Rail transport Carriage prohibited (RID)	No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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 in	nformation	
Date of issue	20/11/2018	
Revision date	20/11/2018	



Safety Data Sheet

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

Supersedes

07/12/2015

Indication of changes:

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

Other information

None.

Full text of H-statements:

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.
H410	Very 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



HIT-HY 70, A Safety Data Sheet

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

Date of issue: 20/11/2018

Version: 10.0

Revision date: 20/11/2018

Supersedes: 07/12/2015

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

1.1. Product identifier			
Product form	Mixture		
Product name	HIT-HY 70, A		
Product code	BU Anchor		
1.2. Relevant identified uses of the substat	nce or mixture and uses advised against		
1.2. Relevant identified uses of the substan	ice of mixture and uses advised against		
Use of the substance/mixture	Composite mortar component for fasteners in the construction industry		
1.3. Details of the supplier of the safety data sheet			
Supplier	Department issuing data specification sheet		
Supplier Hilti (Hong Kong) Ltd.	Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH		
Hilti (Hong Kong) Ltd.			
••	Hilti Entwicklungsgesellschaft mbH		
Hilti (Hong Kong) Ltd. 701-704, 7/F, Tower A, Manulife Financial Centre	Hilti Entwicklungsgesellschaft mbH Hiltistraße 6		
Hilti 701-704, 7/F, Tower A, Manulife Financial Centre 223 Wai Yip Street, Kwun Tong	Hilti Entwicklungsgesellschaft mbH Hiltistraße 6 86916 Kaufering - Deutschland		

1.4. Emergency telephone number

Emergency number

Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +852 27734 700

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 Irrit. 2A	H319
Skin Sens. 1	H317
Repr. 1B	H360
Aquatic Acute 3	H402
Aquatic Chronic 3	H412
Full text of H statements : see section 16	

2.2. Label elements

Labelling according to the United Nations C	GHS (Rev. 4, 2011)
Hazard pictograms (GHS UN)	GHS07 GHS08
Signal word (GHS UN)	Danger
Hazardous ingredients	4-tert-butylpyrocatechol; 2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol; boric acid
Hazard statements (GHS UN)	H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H360 - May damage fertility or the unborn child. H412 - Harmful 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.





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

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

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-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	(CAS-No.) 27813-02-1	10 - 25	Flammable liquids Not classified Acute toxicity (oral) Not classified Serious eye damage/eye irritation, Category 2A, H319 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment - Acute Hazard Not classified Hazardous to the aquatic environment - Chronic Hazard Not classified
Bisphenol-A-diethoxy-methacrylate	(CAS-No.) 24448-20-2	5 - 10	Flammable liquids Not classified Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319
Tricyclodecane dimethanol dimethacrylate	(CAS-No.) 43048-08-4	2.5 - 5	Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2A, H319 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation, H335
1,1,1-Trimethylolpropane trimethacrylate	(CAS-No.) 3290-92-4	2.5 - 5	Flammable liquids Not classified Acute toxicity (oral) Not classified Hazardous to the aquatic environment — Acute Hazard, Category 2, H401 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411
1,1'-(p-tolylimino)dipropan-2-ol	(CAS-No.) 38668-48-3	0.1 - 1	Acute toxicity (oral), Category 2, H300 Serious eye damage/eye irritation, Category 2A, H319 Hazardous to the aquatic environment — Acute Hazard, Category 3, H402 Hazardous to the aquatic environment — Chronic Hazard, Category 3, H412
boric acid	(CAS-No.) 10043-35-3	0.1 - 1	Acute toxicity (oral), Category 5, H303 Reproductive toxicity, Category 1B, H360 Hazardous to the aquatic environment — Acute Hazard, Category 3, H402
4-tert-butylpyrocatechol	(CAS-No.) 98-29-3	0.1 - 1	Acute toxicity (oral), Category 4, H302 Acute toxicity (dermal), Category 4, H312 Skin corrosion/irritation, Category 1B, H314 Skin sensitisation, Category 1, H317 Hazardous to the aquatic environment — Acute Hazard, Category 1, H400 Hazardous to the aquatic environment — Chronic Hazard, Category 2, H411

Full text of H-statements: see section 16



Safety Data Sheet

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

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	Take off immediately all contaminated clothing. 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. Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects after skin contact	May cause an allergic skin reaction.
Symptoms/effects after eye contact	May cause severe irritation.
Potential adverse human health effects and	Based on available data, the classification criteria are not met.

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

Treat symptomatically.

symptoms

SECTION 5: Firefighting mea	asures
5.1. Extinguishing media	
Suitable extinguishing media	Water spray. Carbon dioxide. Dry powder. Foam. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.
No additional information available 5.3. Advice for firefighters	
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1.For non-emergency personne			
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.		



Safety Data Sheet

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

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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. 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	g
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. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage,	including any incompatibilities
Storage conditions	Keep cool. Protect from sunlight.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Storage temperature	5 - 25 °C
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 cons for this product.	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.		
8.2. Appropriate en	ngineering contro	ls			
Environmental exposu	ire controls	Avoid release to the environn	Avoid release to the environment.		
Consumer exposure c	ontrols	Avoid contact during pregnar	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)	0,12		EN 374



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

protection



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and che	emical properties
Physical state	Solid
Appearance	Thixotropic paste.
Colour	Grey.
Odour	characteristic.
Odour threshold	Not determined
рН	≈ 8 Not applicable.
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	> 100 °C
Auto-ignition temperature	Not self-igniting
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.65 g/cm ³
Solubility	insoluble in water. Water: Not miscible
Log Pow	No data available
Viscosity, kinematic	≈ 20 Seconds
Viscosity, dynamic	65 - 95 Pa·s
Explosive properties	Product is not explosive.
Oxidising properties	No data available
Explosive limits	No data available

9.2. Other information

No additional information available



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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
2-Propenoic acid, 2-methyl-, monoester with	
LD50 oral rat	> 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweight Rat; Experimental value)
LD50 dermal rabbit	>= 5000 mg/kg bodyweight (Rabbit; Experimental value)
1,1,1-Trimethylolpropane trimethacrylate (3	3290-92-4)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 3000 mg/kg
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3	
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg
4-tert-butylpyrocatechol (98-29-3)	
LD50 oral rat	815 mg/kg bodyweight (Rat; Lethal; ECHA)
LD50 oral	2820 mg/kg
LD50 dermal rat	1331 mg/kg bodyweight (Rat;Lethal; ECHA)
LD50 dermal	630 mg/kg
boric acid (10043-35-3)	
LD50 oral rat	2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >2600 mg/kg bodyweight; Rat; Experimental value)
LD50 oral	2660 mg/kg
LD50 dermal rabbit	> 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)
LC50 inhalation rat (mg/l)	> 2.12 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male/female, Experimental value Inhalation (dust))
Skin corrosion/irritation	Causes skin irritation.
	pH: ≈ 8 Not applicable.
Serious eye damage/irritation	Causes serious eye irritation.
	pH: ≈ 8 Not applicable.
Respiratory or skin sensitisation	May cause an allergic skin reaction.



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Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	May damage fertility or the unborn child.
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information			
12.1. Toxicity			
Acute aquatic toxicity	Harmful to aquatic life.		
Classification procedure (Acute aquatic toxicity)	Calculation method		
Chronic aquatic toxicity	Harmful to aquatic life with long lasting effects.		
Classification procedure (Chronic aquatic toxicity)	Calculation method		
2-Propenoic acid, 2-methyl-, monoester with			
LC50 fish 1	493 mg/l (48 h; Leuciscus idus; GLP)		
EC50 Daphnia 1	> 143 mg/l (48 h; Daphnia magna; GLP)		
Threshold limit algae 1	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)		
Threshold limit algae 2	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)		
1,1,1-Trimethylolpropane trimethacrylate (329	90-92-4)		
LC50 fish 1	2 mg/l		
ErC50 (algae)	3.88 mg/l		
NOEC chronic fish	0.138 mg/l		
NOEC chronic crustacea	0.177 mg/l		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)			
LC50 fish 1	≈ 17 mg/l		
LC50 other aquatic organisms 1	245 mg/l		
EC50 Daphnia 1	28.8 mg/l		
NOEC (acute)	57.8 mg/l		
4-tert-butylpyrocatechol (98-29-3)			
LC50 fish 1	0.12 mg/l (96 h, Danio rerio, Lethal, ECHA)		
EC50 Daphnia 1	> µg/l		
ErC50 (algae)	10.17 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata,		
	Static system, Fresh water, Experimental value, GLP)		
boric acid (10043-35-3)			
LC50 fish 1	447 mg/l		
EC50 Daphnia 1	658 - 875 mg/l (48 h; Daphnia magna)		
LC50 fish 2	79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)		
EC50 Daphnia 2	19.7 mg/l (336 h; Daphnia magna)		
ErC50 (algae)			
NOEC chronic fish 2.1 mg/l			

12.2. Persistence and degradability

НІТ-НҰ 70, А		
Persistence and degradability	Not established.	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Persistence and degradability Readily biodegradable in water.		
4-tert-butylpyrocatechol (98-29-3)		
Persistence and degradability	ersistence and degradability Not readily biodegradable in water. Inherently biodegradable.	
ThOD	2.4 g O ₂ /g substance	



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12.3. Bioaccumulative potential

Not established.		
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
<= 100		
3.2 Quantitative structure-activity relationship (QSAR)		
0.97 (OECD 102 method)		
Low bioaccumulation potential (BCF < 500).		
1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)		
366 l/kg		
3.53		
4.39		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
~		
2.1		
4-tert-butylpyrocatechol (98-29-3)		
1.98 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)		
Low potential for bioaccumulation (Log Kow < 4).		
boric acid (10043-35-3)		
< 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight)		
-1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)		
Low bioaccumulation potential (BCF < 500).		

12.4. Mobility in soil

2-Propenoic acid, 2-methyl-, monoester with	h 1,2-propanediol (27813-02-1)		
Log Pow	See section 12.1 on ecotoxicology		
Ecology - soil	ogy - soil Low potential for adsorption in soil.		
1,1,1-Trimethylolpropane trimethacrylate (3	290-92-4)		
Log Pow	See section 12.1 on ecotoxicology		
Log Kow	See section 12.1 on ecotoxicology		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)			
Log Kow	See section 12.1 on ecotoxicology		
4-tert-butylpyrocatechol (98-29-3)			
Log Pow	See section 12.1 on ecotoxicology		
Log Koc	See section 12.1 on ecotoxicology		
Ecology - soil	Highly mobile in soil.		
boric acid (10043-35-3)			
Log Pow	See section 12.1 on ecotoxicology		
Ecology - soil	No (test)data on mobility of the substance available. May be harmful to plant growth, blooming and fruit formation.		

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)

Product/Packaging disposal recommendations

Disposal must be done according to official regulations.

After curing, the product can be disposed of with household waste. . Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product : Dispose in a safe manner in accordance with local/national regulations.



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Ecology - waste materials

Avoid release to the environment.

SECTION 14: Transport information

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

ADR		IMDG	ΙΑΤΑ	RID
14.1.	UN number			
Not reg	ulated	Not regulated	Not regulated	Not regulated
14.2.	UN proper shipping	name		
Not reg	ulated	Not regulated	Not regulated	Not regulated
14.3.	Transport hazard cla	ass(es)		
Not reg	ulated	Not regulated	Not regulated	Not regulated
14.4.	Packing group			
Not reg	ulated	Not regulated	Not regulated	Not regulated
14.5.	Environmental haza	rds		
Not reg	ulated	Not regulated	Not regulated	Not regulated
		No supplementa	ry information available	

14.6. Special precautions for user

- Overland transport

- Transport by sea

No data available

- Air transport

No data available

- Rail transport

Carriage prohibited (RID)

No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

None.

No additional information available

SECTION 16: Other information				
Date	Date of issue 20/11/2018			
Revis	Revision date 20/11/2018			
Supe	ersedes 07/12/2015			
Indication of changes:				
	Section	Changed item	Change	Comments
	2.1	Classification (GHS UN)	Added	

Other information



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Full text of H-statements:

H300	Fatal if swallowed.
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H402 H411	Harmful to aquatic life 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