

# HIT-HY 110

## Safety information for 2-Component-products

Date of issue: 15/09/2016

Revision date: 15/09/2016

Supersedes: 14/12/2016

Version: 2.2

### SECTION 1: Kit identification

#### 1.1 Product identifier

Name **HIT-HY 110**



Product code **BU Anchor**

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

Hilti (Thailand) Ltd.  
 No. 1858/107-108, 24th Floor, Interlink Tower,  
 10260 Bangkok - Thailand  
 T +66 2 714 5300 - F +66 2 714 5399

### 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: Kit contents

#### Classification of the Product

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

#### Label elements

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

Hazard pictograms (GHS-TH)



GHS07



GHS09

Signal word (GHS-TH)

Warning

# HIT-HY 110

## Safety information for 2-Component-products

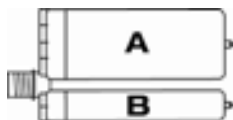
Hazardous ingredients	methacrylates, dibenzoyl peroxide
Hazard statements (GHS-TH)	H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H400 - Very toxic to aquatic life
Precautionary statements (GHS-TH)	P262 - Do not get in eyes, on skin, or on clothing P280 - Wear eye protection, protective clothing, protective gloves P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P302+P352 - IF ON SKIN: Wash with plenty of water P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: 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 (Rev. 4, 2011)
HIT-HY 110, A		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317
HIT-HY 110, B		1	pcs (pieces)	Skin Sens. 1, H317 Aquatic Acute 1, H400

### SECTION 4: General advice

General advice For professional users only

### SECTION 5: Safe handling advice

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

# HIT-HY 110

## Safety information for 2-Component-products

	Mechanically recover the product
	Store away from other materials
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 cautiously with water for several minutes 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 Do not induce vomiting Obtain emergency medical attention
First-aid measures after inhalation	Assure fresh air breathing Remove victim to fresh air and keep at rest in a position comfortable for breathing Allow the victim to rest
First-aid measures after skin contact	Wash with plenty of soap and water Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention
First-aid measures general	Remove/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/injuries after eye contact	Causes serious eye irritation
Symptoms/injuries after skin contact	May cause an allergic skin reaction

### 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	Do not enter fire area without proper protective equipment, including respiratory protection Self-contained breathing apparatus
Hazardous decomposition products in case of fire	Thermal decomposition generates : Carbon dioxide Carbon monoxide

### SECTION 8: Other information

No data available

# HIT-HY 110

Safety information for 2-Component-products

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# HIT-HY 110, B

## Safety Data Sheet

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

Date of issue: 25/11/2016

Revision date: 25/11/2016

Supersedes: 14/12/2015

Version: 2.2

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

#### 1.1. Product identifier

Product form	Mixture
Name	HIT-HY 110, B
Product code	BU Anchor

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	Composite mortar component for fasteners in the construction industry
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#### 1.3. Details of the supplier of the safety data sheet

**Supplier**

Hilti (Thailand) Ltd.  
 No. 1858/107-108, 24th Floor, Interlink Tower,  
 10260 Bangkok - Thailand  
 T +66 2 714 5300 - F +66 2 714 5399

**Manufacturer**

Hilti Industriegesellschaft für Befestigungstechnik  
 Hiltistraße 6  
 86916 Kaufering - Germany  
 T +49 8191 90-0

**Department issuing data specification sheet**

Hilti Entwicklungsgesellschaft mbH  
 Hiltistraße 6  
 86916 Kaufering - Germany  
 T +49 8191 906310 - F +49 8191 90176310  
[anchor.hse@hilti.com](mailto:anchor.hse@hilti.com)

#### 1.4. Emergency telephone number

Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +66 2 714 5300
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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to the United Nations GHS**

Organic peroxide	Not classified	
Sensitisation — Skin, Category 1		H317
Hazardous to the aquatic environment — Acute Hazard, Category 1		H400
Full text of H statements : see section 16		

# HIT-HY 110, B

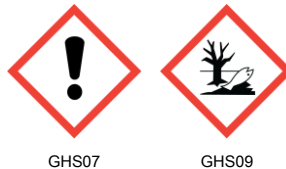
## Safety Data Sheet

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

### 2.2. Label elements

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

Hazard pictograms (GHS-UN)



Signal word (GHS-UN)

Warning

Hazard statements (GHS-UN)

H317 - May cause an allergic skin reaction  
 H400 - Very toxic to aquatic life

Precautionary statements (GHS-UN)

P280 - Wear eye protection, protective clothing, protective gloves  
 P262 - Do not get in eyes, on skin, or on clothing  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P337+P313 - If eye irritation persists: Get medical advice/attention  
 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. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to MOI notification B.E. 2555 (2012)
Quartz	(CAS No) 14808-60-7	40 - 60	Not classified
Water	(CAS No) 7732-18-5	25 - 40	Not classified
dibenzoyl peroxide	(CAS No) 94-36-0	5 - 10	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)

Full text of H-statements: see section 16

# HIT-HY 110, B

## 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	Remove/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 victim to fresh air and keep at rest in a position 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 soap and 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 effects, both acute and delayed

Symptoms/injuries after skin contact	May cause an allergic skin reaction.
Symptoms/injuries after eye contact	May cause severe irritation.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Water spray. Carbon dioxide. Dry powder. Foam. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

# HIT-HY 110, B

## Safety Data Sheet

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

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment Use personal protective equipment as required. Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

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

#### 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

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

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters



# HIT-HY 110, B

## Safety Data Sheet

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

**Additional information**

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

### 8.2. Appropriate engineering controls

Environmental exposure controls                      Avoid release to the environment.  
 Consumer exposure controls                          Avoid contact during pregnancy/while nursing.  
 Other information    Do not eat, drink or smoke during use.

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

Hand protection    Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN 374

Eye protection    Chemical goggles or safety glasses

Type	Use	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

Skin and body protection                              Wear suitable protective clothing



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state    Solid  
 Appearance    Thixotropic paste.  
 Colour    white.  
 Odour    characteristic.  
 Odour threshold    Not determined  
 pH    ≈ 6  
 Relative evaporation rate (butylacetate=1)      No data available

# HIT-HY 110, B

## Safety Data Sheet

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

Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
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	1.7 g/cm <sup>3</sup> DIN 51757
Solubility	Water: Not miscible
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	90 Pa.s HN-0333
Explosive properties	Product is not explosive.
Oxidising properties	No data available
Explosive limits	No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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.

# HIT-HY 110, B

## Safety Data Sheet

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

### 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

dibenzoyl peroxide (94-36-0)	
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; Equivalent or similar to OECD 401; Weight of evidence)

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

Specific target organ toxicity (single exposure) Not classified

Specific target organ toxicity (repeated exposure) Not classified

Aspiration hazard Not classified

HIT-HY 110, B	
Viscosity, kinematic	52941.17647059 mm <sup>2</sup> /s

Potential adverse human health effects and symptoms Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

dibenzoyl peroxide (94-36-0)	
LC50 fish 1	2 mg/l (96 h; Poecilia reticulata)

# HIT-HY 110, B

## Safety Data Sheet

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

EC50 Daphnia 1	0.07 mg/l
LC50 fish 2	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)
NOEC (acute)	0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA)

### 12.2. Persistence and degradability

<b>HIT-HY 110, B</b>	
Persistence and degradability	Not established.
<b>dibenzoyl peroxide (94-36-0)</b>	
Persistence and degradability	Readily biodegradable in water.

### 12.3. Bioaccumulative potential

<b>HIT-HY 110, B</b>	
Bioaccumulative potential	Not established.
<b>dibenzoyl peroxide (94-36-0)</b>	
Log Pow	3.71
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information	Avoid release to the environment.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	Disposal must be done according to official regulations.
Waste disposal recommendations	Refer to manufacturer/supplier for information on recovery/recycling. Dispose of contents/container to Avoid release to the environment, Refer to manufacturer/supplier for information on recovery/recycling.
Ecology - waste materials	Avoid release to the environment.

## SECTION 14: Transport information

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

<b>ADR</b>	<b>IMDG</b>	<b>IATA</b>	<b>RID</b>
<b>14.1. UN number</b>			
Not regulated for transport			

# HIT-HY 110, B

## Safety Data Sheet

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

ADR	IMDG	IATA	RID
<b>14.2. UN proper shipping name</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
ADR 5.2.1.8.1 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

# HIT-HY 110, B

## Safety Data Sheet

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

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### SECTION 16: Other information

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

SDS\_TH\_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 110, A

## Safety Data Sheet

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

Date of issue: 25/11/2016

Revision date: 25/11/2016

Supersedes: 14/12/2015

Version: 2.2

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

#### 1.1. Product identifier

Product form	Mixture
Name	HIT-HY 110, A
Product code	BU Anchor

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	Composite mortar component for fasteners in the construction industry
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	Manufacturer
Hilti (Thailand) Ltd.	Hilti Industriegesellschaft für Befestigungstechnik
No. 1858/107-108, 24th Floor, Interlink Tower,	Hiltistraße 6
10260 Bangkok - Thailand	86916 Kaufering - Germany
T +66 2 714 5300 - F +66 2 714 5399	T +49 8191 90-0

#### Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH  
 Hiltistraße 6  
 86916 Kaufering - Germany  
 T +49 8191 906310 - F +49 8191 90176310  
[anchor.hse@hilti.com](mailto:anchor.hse@hilti.com)

#### 1.4. Emergency telephone number

Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service
	+41 44 251 51 51 (international)
	+66 2 714 5300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to the United Nations GHS

Serious eye damage/eye irritation, Category 2A	H319
Sensitisation — Skin, Category 1	H317
Full text of H statements : see section 16	

# HIT-HY 110, A

## Safety Data Sheet

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

### 2.2. Label elements

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

Hazard pictograms (GHS-UN)



GHS07

Signal word (GHS-UN)

Warning

Hazard statements (GHS-UN)

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary statements (GHS-UN)

P280 - Wear eye protection, protective clothing, protective gloves

P262 - Do not get in eyes, on skin, or on clothing

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

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

P337+P313 - If eye irritation persists: Get medical advice/attention

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. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to MOI notification B.E. 2555 (2012)
Quartz	(CAS No) 14808-60-7	25 - 40	Not classified
2-Hydroxypropyl methacrylate	(CAS No) 27813-02-1	10 - 25	Eye Irrit. 2A, H319 Skin Sens. 1, H317
1,4-Butanediol dimethacrylate	(CAS No) 2082-81-7	10 - 25	Skin Sens. 1B, H317 Aquatic Acute 3, H402
Cement, alumina	(CAS No) 65997-16-2	10 - 25	Not classified
Aluminium oxide	(CAS No) 1344-28-1	5 - 10	Not classified
1,1'-(p-tolylimino)dipropan-2-ol	(CAS No) 38668-48-3	0.1 - 1	Acute Tox. 2 (Oral), H300 Eye Irrit. 2A, H319



# HIT-HY 110, A

## Safety Data Sheet

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

			Aquatic Acute 3, H402 Aquatic Chronic 3, H412
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Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general      Remove/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).

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

Symptoms/injuries after skin contact      May cause an allergic skin reaction.  
Symptoms/injuries after eye contact      May cause severe irritation.

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

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media      Water spray. Carbon dioxide. Dry powder. Foam. Sand.  
Unsuitable extinguishing media      Do not use a heavy water stream.

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions      Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protection during firefighting      Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures      Evacuate unnecessary personnel.

# HIT-HY 110, A

## Safety Data Sheet

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

### 6.1.2. For emergency responders

Protective equipment	Use personal protective equipment as required. Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area.

### 6.2. Environmental precautions

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

### 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

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Additional information	The product has a pasty consistency. Exposure limit values for respirable dusts are not relevant for this product.
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### 8.2. Appropriate engineering controls

Environmental exposure controls	Avoid release to the environment.
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# HIT-HY 110, A

## Safety Data Sheet

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

Consumer exposure controls	Avoid contact during pregnancy/while nursing.
Other information	Do not eat, drink or smoke during use.

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

Hand protection	Wear protective gloves. The permeation time is not the maximum wearing time! Generally speaking, it must be reduced. Contact with either mixtures of substances or different substances may shorten the protective function's effective duration
Eye protection	Chemical goggles or safety glasses
Skin and body protection	Wear suitable protective clothing



### 8.4. Exposure limit values for the other components

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Solid
Appearance	Thixotropic paste.
Colour	Light grey.
Odour	characteristic.
Odour threshold	Not determined
pH	No data available
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	> 109 °C DIN EN ISO 1523
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

# HIT-HY 110, A

## Safety Data Sheet

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

Relative density	No data available
Density	1.7 g/cm <sup>3</sup> HN-0445
Solubility	Water: Not miscible
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	65 Pa.s HN-0333
Explosive properties	Product is not explosive.
Oxidising properties	No data available
Explosive limits	No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

# HIT-HY 110, A

## Safety Data Sheet

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

Acute toxicity (oral) Not classified

<b>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b>	
LD50 oral rat	25 mg/kg
LD50 dermal rat	> 2000 mg/kg
<b>1,4-Butanediol dimethacrylate (2082-81-7)</b>	
LD50 oral rat	10066 mg/kg
LD50 dermal rat	> 3000 mg/kg
<b>2-Hydroxypropyl methacrylate (27813-02-1)</b>	
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)

Skin corrosion/irritation Not classified  
 Serious eye damage/irritation Causes serious eye irritation.  
 Respiratory or skin sensitisation May cause an allergic skin reaction.  
 Germ cell mutagenicity Not classified  
 Carcinogenicity Not classified  
 Reproductive toxicity Not classified  
 Specific target organ toxicity (single exposure) Not classified  
 Specific target organ toxicity (repeated exposure) Not classified  
 Aspiration hazard Not classified

<b>HIT-HY 110, A</b>	
Viscosity, kinematic	38235.29411765 mm <sup>2</sup> /s

Potential adverse human health effects and symptoms Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

<b>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b>	
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
<b>1,4-Butanediol dimethacrylate (2082-81-7)</b>	
LC50 fish 1	32.5 mg/l
LC50 other aquatic organisms 1	9.79 mg/l

# HIT-HY 110, A

## Safety Data Sheet

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

NOEC (acute)	7.51 mg/l
NOEC (chronic)	20 mg/l
<b>2-Hydroxypropyl methacrylate (27813-02-1)</b>	
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)

### 12.2. Persistence and degradability

<b>HIT-HY 110, A</b>	
Persistence and degradability	Not established.
<b>1,4-Butanediol dimethacrylate (2082-81-7)</b>	
Biodegradation	84 %
<b>2-Hydroxypropyl methacrylate (27813-02-1)</b>	
Persistence and degradability	Readily biodegradable in water.

### 12.3. Bioaccumulative potential

<b>HIT-HY 110, A</b>	
Bioaccumulative potential	Not established.
<b>1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)</b>	
BCF fish 1	≈
Log Kow	2.1
<b>1,4-Butanediol dimethacrylate (2082-81-7)</b>	
Log Pow	3.1
<b>2-Hydroxypropyl methacrylate (27813-02-1)</b>	
BCF fish 1	≤ 100
BCF fish 2	3.2 Quantitative structure-activity relationship (QSAR)
Log Pow	0.97 (OECD 102 method)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information Avoid release to the environment.

# HIT-HY 110, A

## Safety Data Sheet

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

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste)	Disposal must be done according to official regulations.
Waste disposal recommendations	Refer to manufacturer/supplier for information on recovery/recycling. Dispose of contents/container to Avoid release to the environment, Refer to manufacturer/supplier for information on recovery/recycling.
Ecology - waste materials	Avoid release to the environment.

### SECTION 14: Transport information

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

ADR	IMDG	IATA	RID
<b>14.1. UN number</b>			
Not regulated for transport			
<b>14.2. UN proper shipping name</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>			
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>			
Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
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

# HIT-HY 110, A

## Safety Data Sheet

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

**- 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 information

Other information None.

Full text of H-statements:

H300	Fatal if swallowed
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

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*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*