

Safety information for 2-Component-products

Date of issue: 27/09/2018 Revision date: 27/09/2018 Supersedes: 17/11/2015 Version: 3.4

## SECTION 1: Kit identification

#### 1.1 Product identifier

Product name Hilti HIT-HY 200-R 330/2/EE

Hilti HIT-HY 200-R 500/2/EE



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,

Bangna-Trad Road, Km. 4.5

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 MOI notification B.E. 2555 (2012)

Serious eye damage/eye irritation, Category 2A H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category

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Safety information for 2-Component-products

#### Label elements

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

Hazard pictograms (GHS-TH)





GHS07

Signal word (GHS-TH) Warning

Hazardous ingredients methacrylates, dibenzoyl peroxide

Hazard statements (GHS-TH) H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS-TH) 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. P302+P352 - IF ON SKIN: Wash with plenty of water.

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

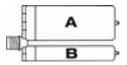
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

#### 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 (Rev. 4, 2011)
HIT-HY 200-R, A		1	pcs	Skin Sens. 1, H317
HIT-HY 200-R, B		1	pcs	Org. Perox. Not classified Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### SECTION 4: General advice

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Safety information for 2-Component-products

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.

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

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Safety information for 2-Component-products

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.

### **SECTION 7: Fire fighting measures**

Exercise caution when fighting any chemical fire

Thermal decomposition generates:

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

. .

Carbon dioxide

Carbon monoxide

### **SECTION 8: Other information**

No data available

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

Date of issue: 27/09/2018 Revision date: 27/09/2018 Supersedes: 25/11/2015 Version: 3.4

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

#### 1.1. Product identifier

Product form Mixture

Product name HIT-HY 200-R, 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

#### 1.3. Details of the supplier of the safety data sheet

### Supplier Manufacturer

Hilti (Thailand) Ltd. Hilti GmbH Industriegesellschaft für Befestigungstechnik

No. 1858/107-108, 24th Floor, Interlink Tower, Hiltistraße 6

Bangna-Trad Road, Km. 4.5 86916 Kaufering - Germany

10260 Bangkok - Thailand T +49 8191 90-0

T +66 2 714 5300 - F +66 2 714 5399

#### 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

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 hazardous chemical

#### Classification according to MOI notification B.E. 2555 (2012)

Organic peroxide Not classified

Serious eye damage/eye irritation, Category 2A H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

#### 2.2. Label elements

Labelling according to MOI notification B.E. 2555 (2012)

Hazard pictograms (GHS-TH)





Signal word (GHS-TH)

Hazard statements (GHS-TH)

Warning

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS-TH) 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. P302+P352 - IF ON SKIN: Wash with plenty of water/...

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

P333+P313 - If on skin and if skin irritation or rash occurs, seek medical advice and attention.

#### 2.3. Other hazards

### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to MOI notification B.E. 2555 (2012)
dibenzoyl peroxide	(CAS-No.) 94-36-0	10 - 25	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

### **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.

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

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/effects after skin contact

May cause an allergic skin reaction.

Symptoms/effects after eye contact May cause severe irritation.

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

### **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

General measures Spilled material may present a slipping hazard.

#### 5.3. Advice for firefighters

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

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.

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

#### 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

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 consistency. Exposure limit values for respirable dusts are not relevant

for this product.

### 8.2. Monitoring

No additional information available

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

#### 8.3. Appropriate engineering controls

No additional information available

#### 8.4. Personal protective equipment

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)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN 374

Eye protection Wear security glasses which protect from splashes

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

Skin and body protection

Wear suitable protective clothing







Environmental exposure controls

Avoid release to the environment.

Consumer exposure controls

Avoid contact during pregnancy/while nursing.

### **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 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 No data available

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

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 1.9 g/ml AW 4.3.23

Solubility Water: Not miscible

Log Pow No data available

Viscosity, kinematic No data available

Viscosity, dynamic 40 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**

Chemical stability Stable under normal conditions

Conditions to avoid Direct sunlight, Extremely high or low temperatures

Hazardous decomposition products fume, Carbon monoxide, Carbon dioxide, Under normal conditions of storage and use,

hazardous decomposition products should not be produced

Incompatible materials Strong acids, Strong bases

### **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

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT-single exposure

Not classified

STOT-repeated exposure

Aspiration hazard

Not classified

Not classified

HIT-HY 200-R, B	
Viscosity, kinematic	21052.632 mm²/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

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity Very toxic to aquatic life with long lasting effects.

Other information Avoid release to the environment.

dibenzoyl peroxide (94-36-0)			
EC50 Daphnia 1	0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static		
	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 200-R, 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 200-R, B	
Bioaccumulative potential	Not established.

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

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 Koc 3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewa			
	Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)		
Ecology - soil	Adsorbs into the soil.		

#### 12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Regional legislation (waste) Disposal must be done according to official regulations.

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	IATA	RID	
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping na	14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

ADR	IMDG	IATA	RID	
14.5. Environmental hazards	<b>.</b>			
Not regulated	Not regulated	Not regulated	Not regulated	
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)				
No supplementary information available				

#### 14.6. Special precautions for user

#### - Overland transport

Special provisions (ADR) 375

- Transport by sea

Special provisions (IMDG) IMDG-Code 2.10.2.7

- 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

Version 3.4

 Date of issue
 9/27/2018

 Revision date
 27/09/2018

 Supersedes
 25/11/20150

Indication of changes:

2.1 Classification (GHS- Added

TH)

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

2.2 Hazard statements Modified

(GHS-TH)

3.2 Composition/informati Added

on on ingredients

Other information None.

#### Full text of H-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Org. Perox. B	Organic Peroxides, Type B
Org. Perox. Not classified	Organic peroxide Not classified
Skin Sens. 1	Skin sensitisation, Category 1
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\_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

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

Date of issue: 27/09/2018 Revision date: 27/09/2018 Supersedes: 27/10/2015 Version: 3.3

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

#### 1.1. Product identifier

Product form Mixture

Product name HIT-HY 200-R, 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

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier

Hilti (Thailand) Ltd.

No. 1858/107-108, 24th Floor, Interlink Tower,

Bangna-Trad Road, Km. 4.5

10260 Bangkok - Thailand

10200 Bangkok - Maliand

T +66 2 714 5300 - F +66 2 714 5399

#### 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

#### Manufacturer

Hilti GmbH Industriegesellschaft für Befestigungstechnik

Hiltistraße 6

86916 Kaufering - Germany

T +49 8191 90-0

### 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 hazardous chemical

Classification according to MOI notification B.E. 2555 (2012)

Skin sensitisation, Category 1 H317

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

#### 2.2. Label elements

#### Labelling according to MOI notification B.E. 2555 (2012)

Hazard pictograms (GHS-TH)

Signal word (GHS-TH)

signal word (GH3-111)

Hazard statements (GHS-TH)

Precautionary statements (GHS-TH)

Warning

H317 - May cause an allergic skin reaction.

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. P302+P352 - IF ON SKIN: Wash with plenty of water/...

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

P333+P313 - If on skin and if skin irritation or rash occurs, seek medical advice and attention.

#### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to MOI notification B.E. 2555 (2012)
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	(CAS-No.) 2082-81-7	10 - 25	Skin Sens. 1B, H317 Aquatic Acute 3, H402
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	(CAS-No.) 27813-02-1	5 - 10	Eye Irrit. 2A, H319 Skin Sens. 1, H317
1,1'-(p-tolylimino)dipropan-2-ol	(CAS-No.) 38668-48-3	0.1 - 1	Acute Tox. 2 (Oral), H300 Eye Irrit. 2A, H319 Aquatic Acute 3, H402 Aquatic Chronic 3, H412

### **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).

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

Symptoms/effects after skin contact May cause an allergic skin reaction.

Symptoms/effects after eye contact May cause severe irritation.

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

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

### **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

General measures Spilled material may present a slipping hazard.

#### 5.3. Advice for firefighters

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

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

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

No additional information available

#### 6.3. Methods and material for containment and cleaning up

No additional information available

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

No additional information available

#### 7.2. Conditions for safe storage, including any incompatibilities

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

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 consistency. Exposure limit values for respirable dusts are not relevant

for this product.

### 8.2. Monitoring

No additional information available

### 8.3. Appropriate engineering controls

No additional information available

#### 8.4. Personal protective equipment

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)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12		EN 374

Eye protection Wear security glasses which protect from splashes

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

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

Skin and body protection

Wear suitable protective clothing







### 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

Relative density No data available

Density 1.8 g/ml AW 4.3.23
Solubility Water: Not miscible

Log Pow No data available

Viscosity, kinematic No data available

Viscosity, dynamic 50 Pa.s HN-0333

Explosive properties Product is not explosive.

Oxidising properties No data available

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### Safety Data Sheet

According to the MOI Notification B.E. 2555 (2012)

Explosive limits No data available

#### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

Incompatible materials Strong acids, Strong bases

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50 oral rat 25 mg/kg	
LD50 dermal rat	> 2000 mg/kg

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
LD50 oral rat	10066 mg/kg
LD50 dermal rat	> 3000 mg/kg

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
LD50 oral rat > 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 mg/kg bodyweigh	
	Rat; Experimental value)
LD50 dermal rabbit	>= 5000 mg/kg bodyweight (Rabbit; Experimental value)

Skin corrosion/irritation Not classified
Serious eye damage/irritation Not classified

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

Not classified

Not classified

HIT-HY 200-R, A	
Viscosity, kinematic	27777.778 mm²/s

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Potential adverse human health effects and

Based on available data, the classification criteria are not met.

symptoms

## SECTION 12: Ecological information

### 12.1. Toxicity

Acute aquatic toxicity

Not classified

Chronic aquatic toxicity

Not classified

Other information Avoid release to the environment.

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

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
LC50 fish 1	32.5 mg/l
LC50 other aquatic organisms 1	9.79 mg/l
NOEC (acute)	7.51 mg/l
NOEC (chronic)	20 mg/l

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
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

HIT-HY 200-R, A	
Persistence and degradability	Not established.
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	
Biodegradation	84 %
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
Persistence and degradability	Readily biodegradable in water

### 12.3. Bioaccumulative potential

HIT-HY 200-R, A	
Bioaccumulative potential	Not established.
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
1, 1 -(p-tolylilfillio)ulpropari-2-01 (38000-46-3)	

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Log Kow	2.1	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Log Pow	3.1	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
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

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	
Ecology - soil	Low potential for adsorption in soil.

### 12.5. Other adverse effects

Ozone Not classified

Other adverse effects No additional information available

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional legislation (waste) Disposal must be done according to official regulations.

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	IATA	RID
14.1. UN number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	RID
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary 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

No additional information available

## SECTION 16: Other information

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 27/10/20150

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Other information

None.

#### Full text of H-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Aquatic Acute 3	Hazardous to the aquatic environment — Acute Hazard, Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H300	Fatal if swallowed.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H402	Harmful to aquatic life
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

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