

HIT-MM PLUS

Safety information for 2-Component-products

Date of issue: 28/04/2016 Revision date: 28/04/2016 Supersedes: 11/01/2016 Version: 7.2

SECTION 1: Kit identification

1.1 Product identifier

Name HIT-MM PLUS Product code **BU** Anchor



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

Hilti SMN doo 11080 Zemun Belgrade - Serbien T +381 11 6556896 - F +381 11 6556891

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 Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319 H317 Skin Sens. 1 Aquatic Acute 1 H400

Full text of hazard classes and H-statements : see section 16

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

GHS09

Signal word (CLP)

Warning Hazardous ingredients

methacrylates, dibenzoyl peroxide Hazard statements (CLP)

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation H400 - Very toxic to aquatic life

Precautionary statements (CLP) P262 - Do not get in eyes, on skin, or on clothing

P280 - Wear eye protection, protective clothing, protective gloves

28/04/2016 1/20 EN (English)



HIT-MM PLUS

Kit Safety Information Sheet

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

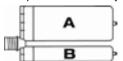
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

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 Regulation (EC) No. 1272/2008 [CLP]
HIT-MM PLUS, A		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317
HIT-MM PLUS, B		1	pcs (pieces)	Skin Sens. 1, H317 Aquatic Acute 1, H400

SECTION 4: General information

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 Wear personal protective equipment Precautions for safe handling 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

Collect spillage

Sources of ignition Direct sunlight

Strong bases Incompatible products

Strong acids

SECTION 6: First aid measures

For containment

Incompatible materials

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 persist

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 victim to fresh air and keep at rest in a position comfortable for breathing

Assure fresh air breathing Allow the victim to rest

28/04/2016 2/20 EN (English)



HIT-MM PLUS

Kit Safety Information Sheet

First-aid measures general

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

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 May cause severe 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 Self-contained breathing apparatus

Do not enter fire area without proper protective equipment, including respiratory protection

Hazardous decomposition products in case of

tire

Thermal decomposition generates : Carbon dioxide Carbon monoxide

SECTION 8: Other information

No data available

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

Date of issue: 28/04/2016 Revision date: 28/04/2016 Supersedes: 11/01/2016 Version: 7.2

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

1.1. Product identifier

Product form Mixture HIT-MM PLUS, B Name Product code **BU** Anchor

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

1.2.1. Relevant identified uses

Industrial/Professional use spec For professional use only

Use of the substance/mixture Composite mortar component for fasteners in the construction industry

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Department issuing data specification sheet

Hilti SMN doo Hilti Entwicklungsgesellschaft mbH

11080 Zemun Hiltistrasse 6

Belgrade - Serbien 86916 Kaufering - Deutschland

T+381 11 6556896 - F+381 11 6556891 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)

+381 11 6556896

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Sens. 1 H317 Aquatic Acute 1 H400

Full text of hazard classes and H-statements: see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS09

Signal word (CLP) Warning

dibenzoyl peroxide Hazardous ingredients

Hazard statements (CLP) H317 - May cause an allergic skin reaction

H400 - Very toxic to aquatic life

P280 - Wear eye protection, protective clothing, protective gloves Precautionary statements (CLP)

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

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

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

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 Regulation (EC) No. 1272/2008 [CLP]
dibenzoyl peroxide	(CAS No) 94-36-0 (EC no) 202-327-6	5 - 10	Org. Perox. B, H241 Eye Irrit. 2, H319
	(EC index no) 617-008-00-0 (REACH-no) 01-2119511472-50		Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10)

Full text of H-statements: see section 16

SECTION 4: 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 persist.

Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting. First-aid measures after ingestion 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.

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

fire

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

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

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.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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

7.3. Specific end use(s)

No additional information available

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

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. Exposure controls

Personal protective equipment Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.

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

Eye protection Chemical goggles or safety glasses

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.

Other information Do not eat, drink or smoke during use.

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 No data available Melting point Freezing point No data available Boiling point No data available No data available Flash point 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/cm3 DIN 51757 Water: Not miscible Solubility Log Pow No data available

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

Viscosity, kinematic

Viscosity, dynamic

Explosive properties

Oxidising properties

Explosive limits

No data available

No data available

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 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			
	Based on available data, the classification criteria are not met			
	pH: ≈ 6			
Serious eye damage/irritation	Not classified			
	Based on available data, the classification criteria are not met			
	pH: ≈ 6			
Respiratory or skin sensitisation	May cause an allergic skin reaction.			
Germ cell mutagenicity	Not classified			
	Based on available data, the classification criteria are not met			
Carcinogenicity	Not classified			
	Based on available data, the classification criteria are not met			
Reproductive toxicity	Not classified			
	Based on available data, the classification criteria are not met			
Specific target organ toxicity (single exposure)	Not classified			
	Based on available data, the classification criteria are not met			

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

Specific target organ toxicity (repeated

exposure)

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard Not classified

Based on available data, the classification criteria are not met

HIT-MM PLUS, B
Viscosity, kinematic 52941.17647059 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

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

HIT-MM PLUS, B	
Persistence and degradability	Not established.
dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.

12.3. Bioaccumulative potential

HIT-MM PLUS, B	
Bioaccumulative potential	Not established.
dibenzoyl peroxide (94-36-0)	
Log Pow	3.71 (QSAR; 3.2; Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC
	method; 22 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional 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.

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.

European List of Waste (LoW) code 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous

substances

20 01 27* - paint, inks, adhesives and resins containing dangerous substances

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

SECTION 14: Transport information

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

Other information

not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7

ADR	IMDG	IATA	RID	
14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping nar	ne			
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class	(es)			
Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :	Dangerous for the environment :	
Yes	Yes Marine pollutant : Yes	Yes	Yes	
ADR 5.2.1.8.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)				
not restricted accor	ding ADR Special Provision SP375, IA	TA-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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information

None.

Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Org. Perox. B	Organic Peroxides, Type B
Skin Sens. 1	Sensitisation — Skin, 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

SDS_EU_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 Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

Date of issue: 07/03/2016 Revision date: 28/04/2016 Supersedes: 11/01/2016 Version: 7.2

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

1.1. Product identifier

Product form Mixture

Name HIT-MM PLUS, A

Product code BU Anchor

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

1.2.1. Relevant identified uses

Industrial/Professional use spec For professional use only

Use of the substance/mixture Composite mortar component for fasteners in the construction industry

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier Department issuing data specification sheet

Hilti SMN doo Hilti Entwicklungsgesellschaft mbH

11080 Zemun Hiltistrasse 6

Belgrade - Serbien 86916 Kaufering - Deutschland

T +381 11 6556896 - F +381 11 6556891 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)

+381 11 6556896

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Eye Irrit. 2 H319 Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS07

Signal word (CLP) Warning

Hazardous ingredients 1,4-Butanediol dimethacrylate, 2-Hydroxypropyl methacrylate

Hazard statements (CLP) H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary statements (CLP) 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

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

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

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 Regulation (EC) No. 1272/2008 [CLP]
2-Hydroxypropyl methacrylate	(CAS No) 27813-02-1 (EC no) 248-666-3 (EC index no) 607-125-00-5 (REACH-no) 01-2119490226-37	10 - 25	Eye Irrit. 2, H319 Skin Sens. 1, H317
1,4-Butanediol dimethacrylate	(CAS No) 2082-81-7 (EC no) 218-218-1 (REACH-no) 01-2119967415-30	1 - 2.5	Skin Sens. 1B, H317
1,1'-(p-tolylimino)dipropan-2-ol	(CAS No) 38668-48-3 (EC no) 254-075-1 (REACH-no) 01-2119980937-17	0.1 - 1	Acute Tox. 2 (Oral), H300 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
1,2-dihydroxybenzene, pyrocatechol	(CAS No) 120-80-9 (EC no) 204-427-5 (EC index no) 604-016-00-4	0.1 - 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341

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).

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 persist.

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.

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

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

Hazardous decomposition products in case of

Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

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.

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.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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.

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 830/2015

Incompatible products Strong bases. Strong acids. Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 - 25 °C

7.3. Specific end use(s)

No additional information available

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. Exposure controls

Personal protective equipment Avoid all unnecessary exposure. Safety glasses. Gloves. Protective clothing.

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

Chemical goggles or safety glasses Eye protection

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.

Avoid contact during pregnancy/while nursing. Consumer exposure controls

Other information Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Appearance Thixotropic paste. Colour Light grey. Odour characteristic. Odour threshold Not determined No data available pΗ Relative evaporation rate (butylacetate=1) No data available Melting point No data available No data available Freezing point Boiling point No data available

Flash point > 109 °C DIN EN ISO 1523

Not self-igniting Auto-ignition temperature

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No data available Decomposition temperature Flammability (solid, gas) Non flammable No data available Vapour pressure No data available Relative vapour density at 20 °C Relative density No data available 1.65 g/ml AW 4.3.23 Density Solubility Water: Not miscible Log Pow No data available No data available Viscosity, kinematic Viscosity, dynamic 100 Pa.s HN-0333 Explosive properties Product is not explosive. No data available Oxidising properties No data available Explosive limits

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

Acute toxicity Not classified

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

Based on available data, the classification criteria are not met

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Serious eye damage/irritation Causes serious eye irritation.

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

Carcinogenicity Not classified

Based on available data, the classification criteria are not met

Not classified Reproductive toxicity

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure)

Not classified

Based on available data, the classification criteria are not met

Not classified Aspiration hazard

Based on available data, the classification criteria are not met

HIT-MM PLUS, A

60606.06060606 mm²/s Viscosity, kinematic

Potential adverse human health effects and symptoms

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

SECTION 12: Ecological information

12.1. Toxicity

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	
1,4-Butanediol dimethacrylate (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	
1,2-dihydroxybenzene, pyrocatechol (120-80-	9)	
LC50 fish 1	9.22 mg/l	
LC50 other aquatic organisms 1	22 mg/l	
2-Hydroxypropyl methacrylate (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	shold 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-MM PLUS, A		
Persistence and degradability	Not established.	
1,4-Butanediol dimethacrylate (2082-81-7)		
Biodegradation	84 %	
2-Hydroxypropyl methacrylate (27813-02-1)		
Persistence and degradability	Readily biodegradable in water. No (test)data on mobility of the substance available.	

12.3. Bioaccumulative potential

HIT-MM PLUS, A		
Bioaccumulative potential	Not established.	
1,1'-(p-tolylimino)dipropan-2-ol (386	3-48-3)	
BCF fish 1	≈	
Log Kow	2.1	

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1,4-Butanediol dimethacrylate (2082-81-7)		
Log Pow	3.1	
2-Hydroxypropyl methacrylate (27813-02-1)		
BCF fish 1	<= 100 (Pisces)	
BCF fish 2	3.2 (Pisces; QSAR)	
Log Pow	0.97 (OECD 102: Melting Point/Melting Range)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional 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.

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.

European List of Waste (LoW) code 08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous

substances

20 01 27* - paint, inks, adhesives and resins containing dangerous substances

SECTION 14: Transport information

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

Other information not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and

IMDG-Code 2.10.2.7

ADR	IMDG	IATA	RID
14.1. UN number			
Not regulated for transport			
14.2. UN proper shipping nan	ne		
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			<u> </u>
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
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			

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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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Other information None.

Full text of H- and EUH-statements:

Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
Skin Sens. 1B	Sensitisation — Skin, category 1B
H300	Fatal if swallowed
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation

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H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H341	Suspected of causing genetic defects
H412	Harmful to aquatic life with long lasting effects

SDS_EU_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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