

HIT-1

Safety information for 2-Component-products

Issue date: 11/08/2022 Revision date: 11/08/2022 Supersedes: 12/04/2017 Version: 2.0

SECTION 1: Kit identification

1.1 Product identifier

Product name HIT-1
Product code BU Anchor

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

Hilti (Schweiz) AG Soodstrasse 61 8134 Adliswil - Schweiz T +41 844 84 84 85 - F +41 844 84 84 86 info@hilti.ch

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 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Full text of H- and EUH-statements: see section 16

Label elements

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

Hazard pictograms (CLP)





GHS09

GHS07

Signal word (CLP) Warning

Hazardous ingredients methacrylates, dibenzoyl peroxide

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

H319 - Causes serious eye irritation.

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

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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Kit SIS (Safety Information Sheet)

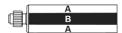
contact lenses, if present and easy to do. Continue rinsing. P302+P352 - IF ON SKIN: Wash with plenty of water.

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

Extra phrases

Additional information

Plastic-cartridge, contains: Methacrylate resin, inorganic filler Dibenzoyl peroxide, phlegmatized



Name	General description	Quantity	Unit	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HIT-1, A		1	pcs (pieces)	Skin Sens. 1, H317 Aquatic Chronic 3, H412
HIT-1, B		1	pcs (pieces)	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: General information

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

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

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.

Strong acids

Allow affected person to breathe fresh air

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Allow the victim to rest

First-aid measures after skin contact Wash contaminated clothing before reuse.

Wash with plenty of water/...

If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures general Take off immediately all contaminated clothing.

Never give anything by mouth to an unconscious person

If you feel unwell, seek medical advice (show the label where possible)

Symptoms/effects after eye contact May cause severe irritation

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

SECTION 7: Fire fighting measures

Exercise caution when fighting any chemical fire

Prevent fire fighting water from entering the environment

Protection during firefighting Self-contained breathing apparatus

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

Hazardous decomposition products in case of

fire

Thermal decomposition generates : Carbon dioxide

Carbon monoxide

SECTION 8: Other information

No data available

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 11/08/2022 Revision date: 11/08/2022 Supersedes version of: 22/02/2017

Version: 2.0

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

1.1. Product identifier

Product form Mixture Product name HIT-1, B 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 (Schweiz) AG Hilti Entwicklungsgesellschaft mbH

Soodstrasse 61 Hiltistraße 6

8134 Adliswil - Schweiz 86916 Kaufering - Deutschland

T +41 844 84 84 85 - F +41 844 84 84 86 T +49 8191 906876 anchor.hse@hilti.com info@hilti.ch

1.4. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum - 24h Service

+41 44 251 51 51 (international)

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319 Skin sensitisation, Category 1 H317 Hazardous to the aquatic environment - Acute Hazard, Category 1 H400 Hazardous to the aquatic environment - Chronic Hazard, Category 1 H410

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Warning

GHS09

Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

dibenzoyl peroxide

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

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

P280 - Wear eye protection, protective clothing, protective gloves.

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

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove



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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

Component	
dibenzoyl peroxide (94-36-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component		
dibenzoyl peroxide(94-36-0) The substance is not included in the list established in accordance with Article 59(1)		
	REACH for having endocrine disrupting properties, or is not identified as having	
	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dibenzoyl peroxide	CAS-No. 94-36-0	5 – <15	Org. Perox. B, H241
	EC-No. 202-327-6		Eye Irrit. 2, H319
	EC Index-No. 617-008-00-0		Skin Sens. 1, H317
	REACH-no 01-2119511472-		Aquatic Acute 1, H400 (M=10)
	50		Aquatic Chronic 1, H410 (M=10)

Full text of H- and EUH-statements: see section 16

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. Allow affected person to breathe fresh air. Allow the victim to rest.	
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.	
First-aid measures after ingestion	Rinse mouth. 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.



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

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

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

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

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify 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.

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

Storage temperature 5 – 25 °C

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Heat and ignition sources

Keep away from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Additional information

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

HIT-1, B	
Switzerland - Occupational Exposure Limits	
Local name	Peroxyde de benzoyle / Dibenzoylperoxid [Benzoylperoxid]
MAK (OEL TWA) [1]	5 mg/m³ (i) / (e)
KZGW (OEL STEL)	5 mg/m³ (i) / (e)
Critical toxicity	VRS, Peau / OAW, Haut
Notation	C1 _A , SS _C , P / C1 _A , SS _C , P
Remark	NIOSH
Regulatory reference	www.suva.ch, 28.03.2022

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls

Ensure adequate ventilation.

8.2.2. Personal protection equipment

Personal protective equipment

Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Personal protective equipment symbol(s)







8.2.2.1. Eye and face protection

Eye protection

Wear security glasses which protect from splashes

Eve protection:

	Туре	Field of application	Characteristics	Standard
	Safety glasses	Droplet	clear	EN 166, EN 170



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8.2.2.2. Skin protection

Skin and body protection

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

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure 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.

No additional information available

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid
Colour Black.
Appearance Thixot

Thixotropic paste. Odour Not available Odour threshold Not available Melting point Not available Freezing point Not available Not available **Boiling point** Flammability Not available **Explosive limits** Not applicable Lower explosive limit (LEL) Not applicable Upper explosive limit (UEL) Not applicable Flash point Not applicable Auto-ignition temperature Not applicable Decomposition temperature Not available Not available pH solution Not available Viscosity, kinematic Not applicable Not available Solubility Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50 °C Not available Density 1.59 g/cm³ Not available Relative density



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Relative vapour density at 20 °C	Not applicable
Particle size	Not available
Particle size distribution	Not available
Particle shape	Not available
Particle aspect ratio	Not available
Particle aggregation state	Not available
Particle agglomeration state	Not available
Particle specific surface area	Not available
Particle dustiness	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content 4.3 % (DIN EN ISO 11890-2)

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

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

dibenzoy	peroxide	(94-36-0)
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Aspiration hazard

IARC group	3 - Not classifiable
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified

Not classified

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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms

No additional information available

SECTION 12 Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term

(chronic)

Very toxic to aquatic life with long lasting effects.

dibenzoyl peroxide (94-36-0)	penzoyl peroxide (94-36-0)	
LC50 - Fish [2] 0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)		
EC50 - Crustacea [1]	0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna,	
Static system, Fresh water, Experimental value, GLP)		
ErC50 algae 0.0711 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella		
	subcapitata, Static system, Fresh water, Experimental value, GLP)	
NOEC (acute) 0.0316 mg/l (96h; Oncorhynchus mykiss; ECHA) NOEC chronic fish 0.001 mg/l		

12.2. Persistence and degradability

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

dibenzoyl peroxide (94-36-0)		
Partition coefficient n-octanol/water (Log Pow)	3.71	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).	

12.4. Mobility in soil

dibenzoyl peroxide (94-36-0)	
Surface tension	No data available (test not performed)
Organic Carbon Normalized Adsorption Coefficient	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on
(Log Koc)	Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental
	value)
Ecology - soil	Low potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

Component	
dibenzoyl peroxide (94-36-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. 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.



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Product/Packaging disposal recommendations

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.

Avoid release to the environment.

Ecology - waste materials European List of Waste (LoW) code

 $08\ 04\ 09^{\star}$ - 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 / IMDG / IATA / RID

ADR	IMDG	IATA	RID
4.1. UN number or ID number			
UN 3077	UN 3077	UN 3077	UN 3077
4.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)	Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)
Fransport document description			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, (-)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide), 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide), 9, III
14.3. Transport hazard class(es)			
9	9	9	9
•			
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment Yes

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5kg

Packing instructions (ADR) : P002, IBC08, LP02, R001

Mixed packing provisions (ADR) : MP10
Transport category (ADR) : 3



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Orange plates :

90 3077

Tunnel restriction code (ADR) : -

Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Packing instructions (IMDG) : LP02, P002
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

Air transport

PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956

Special provisions (IATA) : A97, A158, A179, A197, A215

Rail transport

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg

Packing instructions (RID) : P002, IBC08, LP02, R001

14.7. Maritime transport in bulk according to IMO instruments

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content 4.3 % (DIN EN ISO 11890-2)

15.1.2. National regulations

Switzerland

Storage class (LK) LK 11/13 - Solids

VOCV (Swiss) 0 %

15.2. Chemical safety assessment

No additional information available

SECTION 16 Other information



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Indication of changes:

Section	Changed item	Change	Comments
	SDS EU format according to COMMISSION	Modified	
	REGULATION (EU) 2020/878		
2.1	Classification according to Regulation (EC)	Added	
	No. 1272/2008 [CLP]		
2.2	UFI	Added	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	Modified	
13.1	European List of Waste (LoW) code	Added	
14	Transport information	Added	

Abbreviations and acronyms		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
vPvB	Very Persistent and Very Bioaccumulative	

Full text of H- and EUH-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. 2	Serious eye damage/eye irritation, Category 2	
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.	
Org. Perox. B	Organic Peroxides, Type B	
Skin Sens. 1	Skin sensitisation, Category 1	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

SDS_EU_Hilti



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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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Supersedes version of: 22/02/2017 Version: 2.0

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

1.1. Product identifier

Product form Mixture HIT-1, A Product 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 (Schweiz) AG Hilti Entwicklungsgesellschaft mbH

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1.4. Emergency telephone number

Emergency number Schweizerisches Toxikologisches Informationszentrum – 24h Service

+41 44 251 51 51 (international)

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317

Hazardous to the aquatic environment - Chronic Hazard, Category 3 H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP) Warning

Contains 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester, ethylenedimethacrylate, stabilized, 2-

Propenoic acid, 2-methyl-, monoester with 1,2-propanediol, Reaction mass of 2,2'-[(4-

methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-

methylphenyl)amino]-

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

H412 - Harmful to aquatic life with long lasting effects.

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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contact lenses, if present and easy to do. Continue rinsing. ${\sf P302+P352-IF\ ON\ SKIN:\ Wash\ with\ plenty\ of\ water.}$

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

6HU0-U08J-8516-E4WW

2.3. Other hazards

UFI

Component		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
vinyltoluene (25013-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
ethylenedimethacrylate, stabilized (97-90-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
1,4-naphthoquinone (130-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component		
2-Propenoic acid, 2-methyl-, 1,4-butanediyl	The substance is not included in the list established in accordance with Article 59(1) of	
ester(2082-81-7)	REACH for having endocrine disrupting properties, or is not identified as having	
	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
vinyltoluene(25013-15-4)	The substance is not included in the list established in accordance with Article 59(1) of	
	REACH for having endocrine disrupting properties, or is not identified as having	
	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
ethylenedimethacrylate, stabilized(97-90-5)	The substance is not included in the list established in accordance with Article 59(1) of	
	REACH for having endocrine disrupting properties, or is not identified as having	
	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	



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Component		
2-Propenoic acid, 2-methyl-, monoester with 1,2-	The substance is not included in the list established in accordance with Article 59(1) of	
propanediol(27813-02-1)	REACH for having endocrine disrupting properties, or is not identified as having	
	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
1,1'-(p-tolylimino)dipropan-2-ol(38668-48-3)	The substance is not included in the list established in accordance with Article 59(1) of	
	REACH for having endocrine disrupting properties, or is not identified as having	
	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
Reaction mass of 2,2'-[(4-	The substance is not included in the list established in accordance with Article 59(1) of	
methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-	REACH for having endocrine disrupting properties, or is not identified as having	
hydroxyethoxy)ethyl](4-methylphenyl)amino]-	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate(6846-	The substance is not included in the list established in accordance with Article 59(1) of	
50-0)	REACH for having endocrine disrupting properties, or is not identified as having	
	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	
1,4-naphthoquinone(130-15-4)	The substance is not included in the list established in accordance with Article 59(1) of	
	REACH for having endocrine disrupting properties, or is not identified as having	
	endocrine disrupting properties in accordance with the criteria set out in Commission	
	Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	CAS-No. 2082-81-7 EC-No. 218-218-1	5 – <15	Skin Sens. 1B, H317
	REACH-no 01-2119967415- 30		
vinyltoluene	CAS-No. 25013-15-4	1 – <6	Flam. Liq. 3, H226
	EC-No. 246-562-2		Acute Tox. 4 (Inhalation), H332
	REACH-no 01-2119622074-		(ATE=1.5 mg/l/4h)
	50		Skin Irrit. 2, H315
			Eye Irrit. 2, H319
			Aquatic Acute 1, H400
			Aquatic Chronic 2, H411
ethylenedimethacrylate, stabilized	CAS-No. 97-90-5	1 – <5	Skin Sens. 1, H317
	EC-No. 202-617-2		STOT SE 3, H335
	EC Index-No. 607-114-00-5		Aquatic Chronic 3, H412
2-Propenoic acid, 2-methyl-, monoester with 1,2-	CAS-No. 27813-02-1	< 2.5	Eye Irrit. 2, H319
propanediol	EC-No. 248-666-3		Skin Sens. 1, H317
	EC Index-No. 607-125-00-5		
	REACH-no 01-2119490226-		
	37		
1,1'-(p-tolylimino)dipropan-2-ol	CAS-No. 38668-48-3	< 0.5	Acute Tox. 2 (Oral), H300 (ATE=25
	EC-No. 254-075-1		mg/kg bodyweight)
	REACH-no 01-2119980937-		Eye Irrit. 2, H319
	17		Aquatic Chronic 3, H412



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of 2,2'-[(4-	EC-No. 911-490-9	< 0.5	Acute Tox. 4 (Oral), H302 (ATE=500
methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-	REACH-no 01-2119979579-		mg/kg bodyweight)
hydroxyethoxy)ethyl](4-methylphenyl)amino]-	10		Skin Irrit. 2, H315
			Eye Dam. 1, H318
			Skin Sens. 1, H317
			Aquatic Chronic 3, H412
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate	CAS-No. 6846-50-0	< 0.5	Repr. 2, H361
	EC-No. 229-934-9		Aquatic Chronic 3, H412
1,4-naphthoquinone	CAS-No. 130-15-4	< 0.05	Acute Tox. 3 (Oral), H301 (ATE=124
	EC-No. 204-977-6		mg/kg bodyweight)
			Acute Tox. 1 (Inhalation), H330
			Skin Corr. 1C, H314
			Eye Dam. 1, H318
			Skin Sens. 1, H317
			STOT SE 3, H335
			Aquatic Acute 1, H400 (M=10)
			Aquatic Chronic 1, H410

Specific concentration limits:

Name	Product identifier	Specific concentration limits
ethylenedimethacrylate, stabilized	CAS-No. 97-90-5	(10 ≤C < 100) STOT SE 3, H335
	EC-No. 202-617-2	
	EC Index-No. 607-114-00-5	

Full text of H- and EUH-statements: see section 16

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. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Wash contaminated clothing before reuse. Wash with plenty of water/ If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	Rinse mouth. 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

Treat symptomatically.

SECTION 5 Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Carbon dioxide. Dry powder. Foam. Sand.

Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire Thermal decomposition generates : Carbon dioxide. Carbon monoxide.



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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

General measures Spilled material may present a slipping hazard.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

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

Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify 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. Do not eat, drink or smoke when using this product. Always wash hands after handling the

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 conditionsKeep cool. Protect from sunlight.Incompatible productsStrong bases. Strong acids.Incompatible materialsSources of ignition. Direct sunlight.

Storage temperature 5 – 25 °C

Heat and ignition sources Keep away from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Additional information The product has a pasty consistency. Exposure limit values for respirable dusts are not

relevant for this product.



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HIT-1, A	
Switzerland - Occupational Exposure Limits	
Local name	Méthylstyrène (tous les isomères) / Methylstyrol (alle Isomeren) [Vinyltoluol,
	Ethenylmethylbenzol]
MAK (OEL TWA) [1]	172 mg/m³
MAK (OEL TWA) [2]	35 ppm
KZGW (OEL STEL)	490 mg/m³
KZGW (OEL STEL) [ppm]	100 ppm
Critical toxicity	VRS / OAW
Notation	C1 _A , SS _C , P / C1 _A , SS _C , P
Remark	INRS, NIOSH
Regulatory reference	www.suva.ch, 28.03.2022
vinyltoluene (25013-15-4)	
Switzerland - Occupational Exposure Limits	
Local name	Méthylstyrène (tous les isomères)
MAK (OEL TWA) [1]	240 mg/m³
MAK (OEL TWA) [2]	50 ppm
KZGW (OEL STEL)	480 mg/m³
KZGW (OEL STEL) [ppm]	100 ppm
Remark	4x15

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls

Ensure adequate ventilation.

8.2.2. Personal protection equipment

Personal protective equipment

Safety glasses. Gloves. Protective clothing. Avoid all unnecessary exposure.

Personal protective equipment symbol(s)







8.2.2.1. Eye and face protection

Eye protection

Wear security glasses which protect from splashes

Eye protection:

Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166, EN 170

8.2.2.2. Skin protection

Skin and body protection

Wear suitable protective clothing



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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)	> 0,4		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Device	Filter type	Condition	Standard
Disposable half mask	Filter A1/B1	Vapour protection	

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure 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.

No additional information available

Vapour pressure at 50 °C

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid
Colour Beige.

Appearance Thixotropic paste.
Odour strong, unpleasant odour.

Odour threshold Not available Melting point Not available Freezing point Not available Boiling point Not available Flammability Not available Explosive limits Not applicable Lower explosive limit (LEL) Not applicable Upper explosive limit (UEL) Not applicable Flash point Not applicable Auto-ignition temperature Not applicable Not available Decomposition temperature рΗ Not available pH solution Not available Viscosity, kinematic Not applicable Solubility insoluble in water. Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available

Not available



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1.72 g/cm³ Density Not available Relative density Relative vapour density at 20 °C Not applicable Particle size Not available Particle size distribution Not available Particle shape Not available Not available Particle aspect ratio Not available Particle aggregation state Particle agglomeration state Not available Particle specific surface area Not available Particle dustiness Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content 2.8 % (DIN EN ISO 11890-2)

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified

Not classified

2-Propenoic acid, 2-methyl-, 1,4-butanedi	yl ester (2082-81-7)
LD50 oral rat	10066 mg/kg
LD50 dermal rat	> 3000 mg/kg
ATE CLP (oral)	10066 mg/kg bodyweight
vinyltoluene (25013-15-4)	
LD50 oral rat	3375 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))
LD50 oral	4000 mg/kg
LD50 dermal rabbit	> 4585 mg/kg bodyweight (24 h, Rabbit, Male / female, Experimental value, Dermal, 14
	day(s))
LC50 Inhalation - Rat	> 16.891 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14
	day(s))
ATE CLP (oral)	3375 mg/kg bodyweight



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vinyItoluene (25013-15-4) ATE CLP (gases) 4500 ppmv/4h ATE CLP (vapours) 11 mg/l/4h ATE CLP (dust,mist) 1.5 mg/l/4h ethylenedimethacrylate, stabilized (97-90-5) LD50 oral rat 8700 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) LD50 dermal rat > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male Experimental value, Dermal, 14 day(s)) ATE CLP (oral) 8700 mg/kg bodyweight 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 bodyweight; Rat; Experimental value) LD50 dermal rabbit ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value) 2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0) LD50 oral rat > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure Rat, Female, Experimental value, Oral, 14 day(s))	
ATE CLP (vapours) ATE CLP (dust,mist) 1.5 mg/l/4h ethylenedimethacrylate, stabilized (97-90-5) LD50 oral rat 8700 mg/kg (Rat, Male / female, Experimental value, Oral, 14 day(s)) LD50 dermal rat > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male Experimental value, Dermal, 14 day(s)) ATE CLP (oral) 8700 mg/kg bodyweight Experimental value, Dermal, 14 day(s)) 8700 mg/kg bodyweight 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 mod/syweight; Rat; Experimental value) LD50 dermal rabbit ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value) 2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0) LD50 oral rat > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Production of the complex of the comple	
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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 (Rat; Experimental value) LD50 dermal rabbit ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value) 2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0) LD50 oral rat > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Prod	ng/kg
LD50 oral rat > 5000 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >=2000 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) 2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0) LD50 oral rat > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Production of the company of the compa	ng/kg
LD50 dermal rabbit ≥ 5000 mg/kg bodyweight (Rabbit; Experimental value) 2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0) LD50 oral rat > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Productions)	
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0) LD50 oral rat > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Prod	
LD50 oral rat > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Prod	
LD50 oral rat > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Prod	
Rat, Female. Experimental value. Oral. 14 day(s))	edure,
LD50 dermal rabbit > 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Ma	ale /
female, Experimental value, Dermal, 14 day(s))	
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	
ATE CLP (oral) 500 mg/kg bodyweight	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
LD50 oral rat 25 mg/kg	
LD50 dermal rat > 2000 mg/kg	
ATE CLP (oral) 25 mg/kg bodyweight	
1,4-naphthoquinone (130-15-4)	
LD50 oral rat 124 mg/kg (Rat; Experimental value)	
ATE CLP (oral) 124 mg/kg bodyweight	
ATE CLP (gases) 10 ppmv/4h	
ATE CLP (vapours) 0.05 mg/l/4h	
ATE CLP (dust,mist) 0.005 mg/l/4h	
Skin corrosion/irritation Not classified	
Serious eye damage/irritation Not classified	
Respiratory or skin sensitisation May cause an allergic skin reaction.	
Germ cell mutagenicity Not classified	
Carcinogenicity Not classified	
Reproductive toxicity Not classified	
STOT-single exposure Not classified	
ethylenedimethacrylate, stabilized (97-90-5)	
STOT-single exposure May cause respiratory irritation.	
1,4-naphthoquinone (130-15-4)	
STOT-single exposure May cause respiratory irritation.	
STOT-repeated exposure Not classified	
Aspiration hazard Not classified	

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and

symptoms

No additional information available



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SECTION 12 Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

Not classified

(acute)

Hazardous to the aquatic environment, long-term

Harmful to aquatic life with long lasting effects.

(chronic)

(chronic)		
2-Propenoic acid, 2-methyl-, 1,4-butanediy	l ester (2082-81-7)	
LC50 - Other aquatic organisms [1]	9.79 mg/l	
NOEC (acute)	7.51 mg/l	
NOEC (chronic)	20 mg/l	
vinyltoluene (25013-15-4)		
ErC50 algae	4.3 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata,	
	Static system, Fresh water, Experimental value)	
NOEC (acute)	5.2 mg/kg	
NOEC (chronic)	1.636 mg/l	
ethylenedimethacrylate, stabilized (97-90-5		
LC50 - Fish [1]	15.95 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system,	
	Experimental value, GLP)	
EC50 - Crustacea [1]	44.9 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna,	
	Static system, Experimental value, GLP)	
ErC50 algae	19 mg/l (OECD 201: Alga, Growth Inhibition Test, 96 h, Pseudokirchneriella subcapitata,	
	Static system, Experimental value, GLP)	
2-Propenoic acid, 2-methyl-, monoester wi		
LC50 - Fish [1]	493 mg/l (48 h; Leuciscus idus; GLP)	
EC50 - Crustacea [1]	> 143 mg/l (48 h; Daphnia magna; GLP)	
ErC50 algae	97.2 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella	
	subcapitata, Static system, Fresh water, Experimental value, 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)	
2,2,4-trimethyl-1,3-pentanedioldiisobutyrat	e (6846-50-0)	
EC50 - Crustacea [1]	> 1.46 mg/l (Equivalent or similar to EU Method C.2, 48 h, Daphnia magna, Static	
	system, Fresh water, Experimental value, Greater than the water solubility)	
ErC50 algae	> 7.49 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella	
	subcapitata, Static system, Fresh water, Experimental value, Greater than the water	
	solubility)	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3	3)	
LC50 - Fish [1]	≈ 17 mg/l	
LC50 - Other aquatic organisms [1]	245 mg/l	
EC50 - Crustacea [1]	28.8 mg/l	
NOEC (acute)	57.8 mg/l	

12.2. Persistence and degradability

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)		
Biodegradation	84 %	
vinyltoluene (25013-15-4)		
Persistence and degradability	Not readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0 g O ₂ /g substance	
Chemical oxygen demand (COD)	2.88 g O ₂ /g substance	
ThOD	3.12 g O ₂ /g substance	
BOD (% of ThOD)	0	
ethylenedimethacrylate, stabilized (97-90-5)		
Persistence and degradability	Readily biodegradable in water.	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Persistence and degradability	Readily biodegradable in water.	



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2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0)		
Persistence and degradability	Readily biodegradable in water.	
ThOD	2.4 g O ₂ /g substance	
1,4-naphthoguinone (130-15-4)		
Persistence and degradability	Biodegradability in soil: no data available.	
Biochemical oxygen demand (BOD)	0.81 g O ₂ /g substance	
ThOD	2.125 g O ₂ /g substance	
BOD (% of ThOD)	0.381	

12.3. Bioaccumulative potential

2-Propenoic acid, 2-methyl-, 1,4-butanediyl este	er (2082-81-7)
Partition coefficient n-octanol/water (Log Pow)	3.1
vinyltoluene (25013-15-4)	
BCF - Fish [1]	120 – 170 (Other, 30 day(s), Lepomis macrochirus, Flow-through system, Fresh water,
	Experimental value)
Partition coefficient n-octanol/water (Log Pow)	3.26 – 3.36 (Experimental value, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
ethylenedimethacrylate, stabilized (97-90-5)	
BCF - Other aquatic organisms [1]	2.96 (BCFBAF v3.00, QSAR)
Partition coefficient n-octanol/water (Log Pow)	2.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC
	method)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2-Propenoic acid, 2-methyl-, monoester with 1,2	2-propanediol (27813-02-1)
BCF - Fish [1]	≤ 100
BCF - Fish [2]	3.2 Quantitative structure-activity relationship (QSAR)
Partition coefficient n-octanol/water (Log Pow)	0.97 (OECD 102 method)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (68-	46-50-0)
BCF - Fish [1]	5340 (OECD 305: Bioconcentration: Flow-Through Fish Test, 23 day(s), Lepomis
	macrochirus, Flow-through system, Fresh water, Experimental value, GLP)
Partition coefficient n-octanol/water (Log Pow)	4.04 – 4.91 (QSAR, 25 °C)
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	
Partition coefficient n-octanol/water (Log Kow)	2.1
1,4-naphthoquinone (130-15-4)	
Partition coefficient n-octanol/water (Log Pow)	1.71 – 1.78
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

vinyltoluene (25013-15-4)			
Organic Carbon Normalized Adsorption Coefficient	2.985 (log Koc, SRC PCKOCWIN v2.0, QSAR)		
(Log Koc)			
Ecology - soil	Low potential for adsorption in soil.		
ethylenedimethacrylate, stabilized (97-90-5)			
Surface tension	No data available (test not performed)		
Organic Carbon Normalized Adsorption Coefficient	1.367 – 2.12 (log Koc, SRC PCKOCWIN v2.0, QSAR)		
(Log Koc)			
Ecology - soil	Highly mobile in soil.		
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)			
Organic Carbon Normalized Adsorption Coefficient	1.9 (log Koc, Calculated value)		
(Log Koc)			
Ecology - soil	Highly mobile in soil.		
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0)			
Surface tension	27.8 mN/m (22 °C, 100 vol %, EU Method A.5: Surface tension)		
Organic Carbon Normalized Adsorption Coefficient	3.6 (log Koc, QSAR)		
(Log Koc)			



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2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0)	
Ecology - soil	Low potential for mobility in soil.

12.5. Results of PBT and vPvB assessment

Component	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
(2082-81-7)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
vinyltoluene (25013-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
ethylenedimethacrylate, stabilized (97-90-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-Propenoic acid, 2-methyl-, monoester with 1,2-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
propanediol (27813-02-1)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Reaction mass of 2,2'-[(4-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
hydroxyethoxy)ethyl](4-methylphenyl)amino]-	
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
50-0)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,4-naphthoquinone (130-15-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. 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

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.

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 / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	Not regulated
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



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ADR	IMDG	IATA	RID	
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

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content 2.8 % (DIN EN ISO 11890-2)

15.1.2. National regulations

Switzerland

Storage class (LK) LK 11/13 - Solids

VOCV (Swiss) 0 %

15.2. Chemical safety assessment

No additional information available

SECTION 16 Other information

Indication of changes:

Section	Changed item	Change	Comments
	SDS EU format according to COMMISSION	Modified	
	REGULATION (EU) 2020/878		
1.2	Use of the substance/mixture	Added	



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Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC)	Modified	
	No. 1272/2008 [CLP]		
2.2	UFI	Added	
2.2	Hazard statements (CLP)	Modified	
3.2	Composition/information on ingredients	Modified	
13.1	European List of Waste (LoW) code	Added	

Abbreviations and acron	lyms
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:		
Acute Tox. 1 (Inhalation)	Acute toxicity (inhal.), Category 1	
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
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	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H300	Fatal if swallowed.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	



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Full text of H- and E	Full text of H- and EUH-statements:		
H319	Causes serious eye irritation.		
H330	Fatal if inhaled.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H361	Suspected of damaging fertility or the unborn child.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Repr. 2	Reproductive toxicity, Category 2		
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Skin sensitisation, Category 1		
Skin Sens. 1B	Skin sensitisation, category 1B		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 3	H412	Calculation method

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.