

## HIT-1

### Safety information for 2-Component-products

Issue date: 11/08/2022 Revision date: 11/08/2022 Supersedes: 25/01/2022 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, Inc. Legacy Tower, Suite 1000 7250 Dallas Parkway TX 75024 Plano - USA T +1 9724035800

1-800-879-8000 toll free - F +1 918 254 0522

## **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**

#### **GHS-US classification**

Eye Irrit. 2A H319 - Causes serious eye irritation. Skin Sens. 1 H317 - May cause an allergic skin reaction.

Repr. 2 H361 - Suspected of damaging fertility or the unborn child.

### Label elements

#### **GHS US labelling**

Hazard pictograms (GHS US)





GHS07

Warning

GHS08

Signal word (GHS US)
Hazardous ingredients

Hazard statements (GHS US)

riazara statomento (erro ee)

Precautionary statements (GHS US)

methacrylates, dibenzoyl peroxide

May cause an allergic skin reaction. Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

Wear eye protection, protective clothing, protective gloves.

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

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

If on skin: Wash with plenty of water.

15/08/2022 US-OSHA - en 1/26

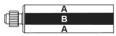


## HIT-1

#### Safety information for 2-Component-products

#### **Additional information**

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



Name	General description	Quantity	Unit	GHS-US classification
HIT-1, A		1	pcs (pieces)	Skin Sens. 1, H317 Repr. 2, H361
HIT-1, B		1	pcs (pieces)	Eye Irrit. 2A, H319 Skin Sens. 1, H317

#### SECTION 4: General advice

General advice For professional users only

#### SECTION 5: Safe handling advice

General measures Spilled material may present a slipping hazard

Environmental precautions Prevent entry to sewers and public waters

Notify authorities if liquid enters sewers or public waters

Storage conditions Keep cool. Protect from sunlight.

Precautions for safe handling Wear personal protective equipment

Avoid contact with skin and eyes

Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work

Provide good ventilation in process area to prevent formation of vapour

Methods for cleaning up

This material and its container must be disposed of in a safe way, and as per local legislation

Mechanically recover the product Store away from other materials.

For containment Collect spillage.

Incompatible materials Sources of ignition
Direct sunlight

Strong bases

Incompatible products Strong bases Strong acids

### **SECTION 6: First aid measures**

First-aid measures after eye contact

Rinse immediately with plenty of water

Remove contact lenses, if present and easy to do. Continue rinsing.

Obtain medical attention if pain, blinking or redness persists

First-aid measures after ingestion Rinse mouth

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.

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 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)

15/08/2022 US-OSHA - en 2/26



## HIT-1

## Safety information for 2-Component-products

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

Other medical advice or treatment Treat symptomatically

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

Firefighting instructions Use water spray or fog for cooling exposed containers

Exercise caution when fighting any chemical fire Prevent fire fighting water from entering the environment

Self-contained breathing apparatus Protection during firefighting

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

Hazardous decomposition products in case of

Thermal decomposition generates:

Carbon dioxide Carbon monoxide

## **SECTION 8: Other information**

No data available

15/08/2022 US-OSHA - en 3/26



## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 08/11/2022 Revision date: 08/11/2022 Supersedes: 01/21/2022 Version: 2.0

## **SECTION 1: Identification**

#### 1.1. Identification

Product form Mixture Product name HIT-1, B Product code **BU** Anchor

#### Recommended use and restrictions on use

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

Recommended use For professional use only

#### 1.3. Supplier

Department issuing data specification sheet Supplier

Hilti, Inc. Hilti Entwicklungsgesellschaft mbH

Legacy Tower, Suite 1000 Hiltistraße 6

7250 Dallas Parkway Kaufering, 86916 - Deutschland T +49 8191 906876

Plano, TX 75024 - USA T +1 9724035800 anchor.hse@hilti.com

1-800-879-8000 toll free - F +1 918 254 0522

#### **Emergency telephone number**

**Emergency number** Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

+1 918 8723000 1-800-879-8000 toll free

## SECTION 2: Hazard(s) identification

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

### **GHS-US** classification

Serious eye damage/eye irritation, Category 2A H319 Causes serious eye irritation. H317 Skin sensitisation, Category 1 May cause an allergic skin reaction.

Full text of H-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labelling**

Hazard pictograms (GHS US)



Signal word (GHS US) Warning

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

H319 - Causes serious eye irritation.

Precautionary statements (GHS US) P280 - Wear eye protection, protective clothing, protective gloves.

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

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

contact lenses, if present and easy to do. Continue rinsing.

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

P302+P352 - If on skin: Wash with plenty of water.

08/15/2022 EN (English) Page 1

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Quartz (SiO2)	(CAS-No.) 14808-60-7	40 – 60	Carc. 1A, H350
dibenzoyl peroxide	(CAS-No.) 94-36-0	5 – <15	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317

Full text of hazard classes and H-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 (acute and delayed)

Potential adverse human health effects and

symptoms

No additional information available.

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

Symptoms/effects after eye contact May cause severe irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

#### **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) 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. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire

Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

08/15/2022 EN (English) 5/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 5.3. Special protective equipment and precautions for fire-fighters

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.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5-25 °C

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

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

HIT-1, B		
USA - ACGIH - Occupational Exposure Limits		
Local name	Benzoyl peroxide	

08/15/2022 EN (English) 6/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ACGIH OEL TWA	5 mg/m³
Remark (ACGIH)	TLV® Basis: URT & skin irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limit	s
Local name	Benzoyl peroxide
OSHA PEL TWA [1]	5 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Quartz (SiO2) (14808-60-7)	
USA - ACGIH - Occupational Exposure Lim	ts
Local name	Silica crystaline - quartz
ACGIH OEL TWA	0.025 mg/m³ (Respirable fraction)
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limit	s
Local name	Silica, crystalline quartz, respirable dust
Remark (OSHA)	(3) See Table Z-3.
dibenzoyl peroxide (94-36-0)	
USA - ACGIH - Occupational Exposure Lim	ts
Local name	Benzoyl peroxide
ACGIH OEL TWA	5 mg/m³
Remark (ACGIH)	TLV® Basis: URT & skin irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limit	s
Local name	Benzoyl peroxide
OSHA PEL TWA [1]	5 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

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

## 8.2. Appropriate engineering controls

Appropriate engineering controls Ensure adequate ventilation.

Environmental exposure controls Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

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

#### 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
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12	

### Eye protection:

Wear security glasses which protect from splashes

Туре	Field of application	Characteristics
Safety glasses	Droplet	clear

#### Skin and body protection:

Wear suitable protective clothing

#### Personal protective equipment symbol(s):

08/15/2022 EN (English) 7/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations







#### 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 Black

Odour There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Mixture contains one or more component(s) which have the following odour:

Odourless

No data available Odour threshold No data available pН Melting point No data available Freezing point No data available Boiling point No data available Flash point No data available Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available Density 1.59 g/cm<sup>3</sup> No data available Solubility Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature No data available

Auto-ignition temperature

Decomposition temperature

Viscosity, kinematic

Viscosity, dynamic

Explosive limits

No data available

#### 9.2. Other information

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.

08/15/2022 EN (English) 8/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

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

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral)

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

Quartz (SiO2) (14808-60-7)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	Known Human Carcinogens	

dibenzoyl peroxide (94-36-0)

IARC group 3 - Not classifiable

Reproductive toxicity Not classified

STOT-single exposure Not classified

STOT-repeated exposure Not classified

Aspiration hazard Not classified

Viscosity, kinematic

Potential adverse human health effects and

symptoms

No additional information available.

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

Symptoms/effects after eye contact May cause severe irritation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

dibenzoyl peroxide (94-36-0)	
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)
LC50 - Fish [2]	0.0602 mg/l (96h; Oncorhynchus mykiss; ECHA)
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

Quartz (SiO2) (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable.

08/15/2022 EN (English) 9/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Quartz (SiO2) (14808-60-7)		
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
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**

Quartz (SiO2) (14808-60-7)		
Bioaccumulative potential No bioaccumulation data available.		
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

Quartz (SiO2) (14808-60-7)		
Surface tension	No data available in the literature	
Ecology - soil	Low potential for mobility in soil.	
dibenzoyl peroxide (94-36-0)		
Surface tension	No data available (test not performed)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	3.8 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value)	
Ecology - soil	Low potential for mobility in soil.	

#### Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

#### 13.1. **Disposal 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.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number	r		
UN 3077	UN 3077	UN 3077	UN 3077
14.2. UN proper shipping nam	ne		
ENVIRONMENTALLY	ENVIRONMENTALLY	Environmentally hazardous	ENVIRONMENTALLY
HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE,	substance, solid, n.o.s. (dibenzoyl	HAZARDOUS SUBSTANCE,
SOLID, N.O.S. (dibenzoyl	SOLID, N.O.S. (dibenzoyl	peroxide)	SOLID, N.O.S. (dibenzoyl
peroxide)	peroxide)		peroxide)

08/15/2022 EN (English) 10/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ADR	IMDG	IATA	RID	
Transport document description				
UN 3077 ENVIRONMENTALLY	UN 3077 ENVIRONMENTALLY	UN 3077 Environmentally	UN 3077 ENVIRONMENTALLY	
HAZARDOUS SUBSTANCE,	HAZARDOUS SUBSTANCE,	hazardous substance, solid,	HAZARDOUS SUBSTANCE,	
SOLID, N.O.S. (dibenzoyl	SOLID, N.O.S. (dibenzoyl	n.o.s. (dibenzoyl peroxide), 9, III	SOLID, N.O.S. (dibenzoyl	
peroxide), 9, III, (-)	peroxide), 9, III, MARINE		peroxide), 9, III	
po. o.a.do), o,, ( )	POLLUTANT		poroz	
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:	Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:	
Yes	Yes	Yes	Yes	
	Marine pollutant: Yes			
not restricted according ADR Specia	al Provision SP375, IATA-DGR Spec	ial Provision A197 and IMDG-Code 2	.10.2.7	

#### 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)

90 3077

Tunnel restriction code (ADR)

Transport by sea

Orange plates

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

08/15/2022 EN (English) 11/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Quartz (SiO2)	CAS-No. 14808-60-7	40 – 60%
dibenzoyl peroxide	CAS-No. 94-36-0	5 – <15%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

dibenzoyl peroxide	CAS-No. 94-36-0	5 – <15%

#### 15.2. International regulations

#### Quartz (SiO2) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### dibenzoyl peroxide (94-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date 08/11/2022

### Full text of H-statements:

H241	Heating may cause a fire or explosion.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350	May cause cancer.

Abbreviations and acronyms:

08/15/2022 EN (English) 12/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Hazard Rating

Health

Flammability

Physical

1 Slight Hazard - Irritation or minor reversible injury possible

1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### Indication of changes:

Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	
14	Transport information	Modified	

SDS\_US\_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.

08/15/2022 EN (English) 13/26



## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 08/11/2022 Revision date: 08/11/2022 Supersedes: 01/25/2022 Version: 2.0

## **SECTION 1: Identification**

#### 1.1. Identification

Product form Mixture
Product name HIT-1, A
Product code BU Anchor

#### 1.2. Recommended use and restrictions on use

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

Recommended use For professional use only

#### 1.3. Supplier

Supplier Department issuing data specification sheet

Hilti, Inc.

Hilti Entwicklungsgesellschaft mbH
Legacy Tower, Suite 1000

Hiltistraße 6

Legacy Tower, Suite 1000 Hiltistraße 6
7250 Dallas Parkway Kaufering, 86916 - Deutschland

1-800-879-8000 toll free - F +1 918 254 0522

#### 1.4. Emergency telephone number

Emergency number Chem-Trec

Tel.: 1 800 424 9300 (USA, PR, Virgin Islands, Canada)

Tel.: 703 527 3887 (Other countries)

+1 918 8723000 1-800-879-8000 toll free

## SECTION 2: Hazard(s) identification

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

### **GHS-US** classification

Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.

Reproductive toxicity, Category 2 H361 Suspected of damaging fertility or the unborn child.

Full text of H-statements: see section 16

## 2.2. GHS Label elements, including precautionary statements

#### **GHS US labelling**

Hazard pictograms (GHS US)





Signal word (GHS US) Warning

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

H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS US) P280 - Wear eye protection, protective clothing, protective gloves.

P262 - Do not get in eyes, on skin, or on clothing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

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

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

P302+P352 - If on skin: Wash with plenty of water.

08/15/2022 EN (English) Page 1

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

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

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Quartz (SiO2)	(CAS-No.) 14808-60-7	40 – 60	Carc. 1A, H350
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	(CAS-No.) 2082-81-7	5 – <15	Skin Sens. 1B, H317
vinyltoluene	(CAS-No.) 25013-15-4	1 – <6	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319
ethylenedimethacrylate, stabilized	(CAS-No.) 97-90-5	1 – <5	Skin Sens. 1, H317 STOT SE 3, H335
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	(CAS-No.) 27813-02-1	< 2.5	Eye Irrit. 2A, H319 Skin Sens. 1, H317
1,1'-(p-tolylimino)dipropan-2-ol	(CAS-No.) 38668-48-3	< 0.5	Acute Tox. 2 (Oral), H300 Eye Irrit. 2A, H319
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-		< 0.5	Acute Tox. 4 (Oral), H302 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 Aquatic Chronic 3, H412
1,4-naphthoquinone	(CAS-No.) 130-15-4	< 0.05	Acute Tox. 3 (Oral), H301 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 Aquatic Chronic 1, H410

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

#### **SECTION 4: First-aid measures**

First-aid measures after inhalation

First-aid measures after eye contact

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).

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.

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 (acute and delayed)

Potential adverse human health effects and

symptoms

No additional information available.

08/15/2022 EN (English) 15/26

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

Symptoms/effects after eye contact May cause severe irritation.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

fire

## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable (and unsuitable) 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. Specific hazards arising from the chemical

Hazardous decomposition products in case of

Thermal decomposition generates: Carbon dioxide. Carbon monoxide.

#### 5.3. Special protective equipment and precautions for fire-fighters

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.

08/15/2022 EN (English) 16/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse.

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

Storage conditions Keep cool. Protect from sunlight.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 – 25 °C

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

HIT-1, A	
USA - ACGIH - Occupational Exposure Limits	
Local name	Vinyltoluene
ACGIH OEL TWA	0.025 mg/m³ (R - Respirable particulate matter)
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL [ppm]	100 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Vinyl toluene
OSHA PEL TWA [1]	480 mg/m³
OSHA PEL TWA [2]	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Quartz (SiO2) (14808-60-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Silica crystaline - quartz
ACGIH OEL TWA	0.025 mg/m³ (Respirable fraction)
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Silica, crystalline quartz, respirable dust
Remark (OSHA)	(3) See Table Z-3.
2-Propenoic acid, 2-methyl-, 1,4-butanediyl es	ster (2082-81-7)
No additional information available	
vinyltoluene (25013-15-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Vinyl toluene
ACGIH OEL TWA [ppm]	50 ppm
ACGIH OEL STEL [ppm]	100 ppm
Remark (ACGIH)	URT & eye irr
USA - OSHA - Occupational Exposure Limits	
Local name	Vinyl toluene
OSHA PEL TWA [1]	480 mg/m³
OSHA PEL TWA [2]	100 ppm
ethylenedimethacrylate, stabilized (97-90-5)	
No additional information available	
2-Propenoic acid, 2-methyl-, monoester with	1,2-propanediol (27813-02-1)

08/15/2022 EN (English) 17/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0)

No additional information available

#### Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

No additional information available

#### 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

No additional information available

#### 1,4-naphthoquinone (130-15-4)

No additional information available

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

for this product.

#### 8.2. Appropriate engineering controls

Appropriate engineering controls Ensure adequate ventilation.

Environmental exposure controls Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

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

#### 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
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,4	

#### Eye protection:

Wear security glasses which protect from splashes

Туре	Field of application	Characteristics
Safety glasses	Droplet	clear

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

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

#### Personal protective equipment symbol(s):







08/15/2022 EN (English) 18/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 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 Beige

Odour strong unpleasant odour

Odour threshold No data available No data available рΗ No data available Melting point No data available Freezing point No data available Boiling point Flash point No data available Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available 1.72 g/cm<sup>3</sup>

Density insoluble in water. Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available Auto-ignition temperature Decomposition temperature No data available No data available Viscosity, kinematic No data available Viscosity, dynamic **Explosive limits** No data available Explosive properties No data available Oxidising properties No data available

## 9.2. Other information

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.

08/15/2022 EN (English) 19/26

STOT-single exposure

ethylenedimethacrylate, stabilized (97-90-5)

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **SECTION 11: Toxicological information**

11.1. Information on toxicological effects		
Acute toxicity (oral)	Not classified	
Acute toxicity (dermal)	Not classified	
Acute toxicity (inhalation)	Not classified	
2 Proposaje said 2 mathyl 4.4 hyteradiyl a	oter (2002-04-7)	
2-Propenoic acid, 2-methyl-, 1,4-butanediyl e		
LD50 oral rat LD50 dermal rat	10066 mg/kg > 3000 mg/kg	
	> 3000 Hg/kg	
vinyltoluene (25013-15-4)	2275 mg/kg hodyweight (Pot. Mole. Evporimental value. Oral. 14 day/a))	
LD50 oral rat	3375 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))	
LC50 Inhalation - Rat	> 4585 mg/kg bodyweight (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) > 16.891 mg/l (4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))	
	> 10.051 High (4 H, Nat, Male / Terriale, Experimental Value, Irlinalation (Vapours), 14 day(s))	
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 / female, Experimental value, Dermal, 14 day(s))	
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))	
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
LD50 oral rat	25 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
1,4-naphthoquinone (130-15-4)		
LD50 oral rat	124 mg/kg (Rat; Experimental value)	
Skin corrosion/irritation	Not classified	
Serious eye damage/irritation	Not classified	
Respiratory or skin sensitisation	May cause an allergic skin reaction.	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Quartz (SiO2) (14808-60-7)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	Known Human Carcinogens	
Tallonal Toxioology Flogram (1411 / Olatos		
Reproductive toxicity	Suspected of damaging fertility or the unborn child.	

STOT-single exposure	May cause respiratory irritation.

Not classified

1,4-naphthoquinone (130-15-4)	
STOT-single exposure	May cause respiratory irritation.

08/15/2022 EN (English) 20/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

STOT-repeated exposure Not classified

Aspiration hazard Not classified

Viscosity, kinematic

Potential adverse human health effects and

symptoms

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

Symptoms/effects after eye contact May cause severe irritation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

2-Propenoic acid, 2-methyl-, 1,4-butanediyl 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 with	1,2-propanediol (27813-02-1)		
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-pentanedioldiisobutyrate (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)			

No additional information available.

## 12.2. Persistence and degradability

LC50 - Other aquatic organisms [1]

LC50 - Fish [1]

NOEC (acute)

EC50 - Crustacea [1]

Quartz (SiO2) (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

≈ 17 mg/l

245 mg/l

28.8 mg/l

57.8 mg/l

08/15/2022 EN (English) 21/26

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)

Z-Properiotic actid, z-inethyl-, 1,4-butanediyi ester (2002-01-7)				
	Biodegradation 84 %			
vinyltoluene (25013-15-4)				
Persistence and degradability	Not readily biodegradable in water.			
Biochemical oxygen demand (BOD)	0 g O₂/g substance			
Chemical oxygen demand (COD)	2.88 g O <sub>2</sub> /g substance			
ThOD	3.12 g O <sub>2</sub> /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.			
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate	(6846-50-0)			
Persistence and degradability	Readily biodegradable in water.			
ThOD	2.4 g O <sub>2</sub> /g substance			
1,4-naphthoquinone (130-15-4)				
Persistence and degradability	Biodegradability in soil: no data available.			
Biochemical oxygen demand (BOD)	0.81 g O₂/g substance			
ThOD	2.125 g O <sub>2</sub> /g substance			
BOD (% of ThOD)	0.381			
42.2 Discontinuistive notantial				
12.3. Bioaccumulative potential				
Quartz (SiO2) (14808-60-7)				
Bioaccumulative potential	No bioaccumulation data available.			
2-Propenoic acid, 2-methyl-, 1,4-butanediyl e	ster (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				
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				
BCF - Fish [1]	5340 (OECD 305: Bioconcentration: Flow-Through Fish Test, 23 day(s), Lepomis macrochirus,			
	Flow-through system, Fresh water, Experimental value, GLP)  4.04 – 4.91 (QSAR, 25 °C)			
Partition coefficient n-octanol/water (Log Pow)				
Bioaccumulative potential	High potential for bioaccumulation (BCF > 5000).			
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)	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).			

08/15/2022 EN (English) 22/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 12.4. Mobility in soil

No data available in the literature		
Low potential for mobility in soil.		
2.985 (log Koc, SRC PCKOCWIN v2.0, QSAR)		
Low potential for adsorption in soil.		
No data available (test not performed)		
1.367 – 2.12 (log Koc, SRC PCKOCWIN v2.0, QSAR)		
Highly mobile in soil.		
1,2-propanediol (27813-02-1)		
1.9 (log Koc, Calculated value)		
Highly mobile in soil.		
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate (6846-50-0)		
27.8 mN/m (22 °C, 100 vol %, EU Method A.5: Surface tension)		
3.6 (log Koc, QSAR)		
Low potential for mobility in soil.		

#### 12.5. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

## 13.1. Disposal 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.

## **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 nam	14.2. UN proper shipping name			
Not regulated	Not regulated	Not regulated	Not regulated	
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	
14.4. Packing group	14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated	

08/15/2022 EN (English) 23/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ADR	IMDG	IATA	RID
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. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Quartz (SiO2)	CAS-No. 14808-60-7	40 – 60%
2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester	CAS-No. 2082-81-7	5 – <15%
vinyltoluene	CAS-No. 25013-15-4	1 – <6%
ethylenedimethacrylate, stabilized	CAS-No. 97-90-5	1 – <5%
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	CAS-No. 27813-02-1	< 2.5%
2,2,4-trimethyl-1,3-pentanedioldiisobutyrate	CAS-No. 6846-50-0	< 0.5%
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	CAS-No.	< 0.5%
1,1'-(p-tolylimino)dipropan-2-ol	CAS-No. 38668-48-3	< 0.5%
1,4-naphthoquinone	CAS-No. 130-15-4	< 0.05%

1,4-naphthoquinone (130-15-4)	
CERCLA RQ	5000 lb

## 15.2. International regulations

## Quartz (SiO2) (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### 2-Propenoic acid, 2-methyl-, 1,4-butanediyl ester (2082-81-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

08/15/2022 EN (English) 24/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date 08/11/2022

#### Full text of H-statements:

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.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H350	May cause cancer.	
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.	
H412	Harmful to aquatic life with long lasting effects.	

Abbreviations and acronyms:

08/15/2022 EN (English) 25/26

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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		

NFPA health hazard

1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard

1 - Materials that must be preheated before ignition can

NFPA reactivity

0 - Material that in themselves are normally stable, even

under fire conditions.



#### Indication of changes:

Section	Changed item	Change	Comments
2.1	GHS-US classification	Modified	
2.2	Hazard pictograms (GHS US)	Added	
2.2	Hazard statements (GHS US)	Modified	
3	Composition/information on ingredients	Modified	

#### SDS\_US\_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.

08/15/2022 EN (English) 26/26