

## HIT-ICE

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

Date of issue: 31/01/2020 Revision date: 31/01/2020 Supersedes: 07/11/2016 Version: 7.0

## **SECTION 1: Kit identification**

#### 1.1 Product identifier

Product name HIT-ICE



Product code BU Anchor

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

Hilti (Canada) Corp. 2360 Meadowpine Boulevard L5N 6S2 Mississauga, Ontario - Canada T +1905 8139200 1-800-363-4458 toll free - F +1 905 813 9009

## **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 (GHS CA)

Organic Peroxides, Type E H242
Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Reproductive toxicity, Category 1B H360
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

#### Label elements

## **GHS CA labelling**

Hazard pictograms (GHS CA)



GHS02







Signal word (GHS CA) Danger

Hazardous ingredients methacrylates, dibenzoyl peroxide, 2-ethylhexyl benzoate

Hazard statements (GHS CA) H242 - Heating may cause a fire.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child. H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS CA) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

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

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

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

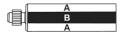
contact lenses, if present and easy to do. Continue rinsing.

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.

#### **Additional information**

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



Name	General description	Quantity	Unit	Classification (GHS CA)
HIT-ICE, A		1	pcs (pieces)	Skin Sens. 1, H317 Aquatic Chronic 3, H412
HIT-ICE, B		1	pcs (pieces)	Org. Perox. E, H242 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

## **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

Incompatible products Strong bases

Strong bases Strong acids

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

First-aid measures after eye contact Rinse immediately with plenty of water

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

Obtain medical attention if pain, blinking or redness persists

First-aid measures after ingestion Rinse mouth

Drink plenty of water Get medical advice/attention. Do not induce vomiting

Obtain emergency medical attention

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## Safety information for 2-Component-products

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)

Symptoms/effects after eye contact

Causes serious eye 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

tire

Thermal decomposition generates :

Carbon dioxide
Carbon monoxide

## **SECTION 8: Other information**

No data available

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## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 01/31/2020 Revision date: 01/31/2020 Supersedes: 12/21/2015 Version: 7.0

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

#### 1.1. Product identifier

Product form Mixture
Product name HIT-ICE, B
Product code BU Anchor

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

No additional information available

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

Supplier

Hilti (Canada) Corp. 2360 Meadowpine Boulevard

L5N 6S2 Mississauga, Ontario - Canada

T +1905 8139200

1-800-363-4458 toll free - F +1 905 813 9009

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

Hiltistraße 6

86916 Kaufering - Deutschland

T +49 8191 906876 anchor.hse@hilti.com

#### 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)

## **SECTION 2: Hazards identification**

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

## Classification (GHS CA)

 Org. Perox. E
 H242

 Eye Irrit. 2A
 H319

 Skin Sens. 1
 H317

 Repr. 1
 H360

 Aquatic Acute 1
 H400

 Aquatic Chronic 1
 H410

Full text of H statements : see section 16

### 2.2. Label elements

#### GHS CA labelling

Hazard pictograms (GHS CA)









GHS02

GHS07

GHS08

GHS09

Signal word (GHS CA) Danger

Hazard statements (GHS CA) H242 - Heating may cause a fire.

H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child. H410 - Very toxic to aquatic life with long lasting effects.

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Precautionary statements (GHS CA)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

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

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

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

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

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according to the Hazardous Products Regulation (February 11, 2015)

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

#### 2.3. Other hazards

No additional information available

## **Unknown acute toxicity (GHS CA)**

No data available

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

## **Substances**

Not applicable

#### 3.2. **Mixtures**

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
dibenzoyl peroxide	dibenzoyl peroxide; benzoyl peroxide	(CAS-No.) 94-36-0	25 - 40	Org. Perox. B, H241 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-ethylhexyl benzoate	2-ethylhexyl benzoate / benzoic acid, 2-ethylhexyl ester	(CAS-No.) 5444-75-7	10 - 20	Repr. 1B, H360
Quartz (SiO2)	quartz / quartz (SiO2) / quartz flour, 1%≤conc respirable crystalline silica<10% / silicon (di)oxide (quartz), 1%≤conc respirable crystalline silica<10%	(CAS-No.) 14808-60-7	1 - 2.5	Carc. 1A, H350

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.

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.

Rinse mouth. Drink plenty of water. Get medical advice/attention. Do not induce vomiting.

Obtain emergency medical attention.

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

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

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

No additional information available

First-aid measures after eye contact

First-aid measures after ingestion

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## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

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

#### 5.1. Suitable extinguishing media

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

### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream.

#### 5.3. Specific hazards arising from the hazardous product

No additional information available

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

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.

#### 6.2. Methods and materials 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.

#### 6.3. Reference to other sections

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

## **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

Quartz (SiO2) (14808-60-7)		
Ontario	OEL TWA (mg/m³)	0.1 mg/m³

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## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Quartz (SiO2) (14808-60-7)		
Ontario	Notations and remarks	(R)
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833
dibenzoyl peroxide (94	l-36-0)	
Alberta	OEL TWA (mg/m³)	5 mg/m³
Alberta	Notations and remarks	URT & skin irr
British Columbia	OEL TWA (mg/m³)	5 mg/m³
British Columbia	Notations and remarks	URT & skin irr

Additional information

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

## 8.2. Appropriate engineering controls

Environmental exposure controls

Avoid release to the environment.

## 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.

Eye protection Wear security glasses which protect from splashes.

Skin and body protection Wear suitable protective clothing.

Environmental exposure controls Avoid release to the environment.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

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

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance Thixotropic paste.

Colour white.

Odour characteristic.

Odour threshold Not determined
pH No data available
Relative evaporation rate (butylacetate=1) No data available
Melting point No data available
Freezing point >= -25 °C

Boiling point No data available Flash point No data available Auto-ignition temperature Not self-igniting Decomposition temperature No data available Flammability (solid, gas) Non flammable. Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available

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Density 1.35 g/ml DIN 51757
Solubility Water: Not miscible
Log Pow No data available
Viscosity, kinematic No data available

Viscosity, dynamic < 55 - 95 mPa·s (HN 570-1) Explosive properties Heating may cause a fire.

Oxidising properties May cause fire or explosion; strong oxidiser.

Explosive limits No data available

9.2. Other information

SADT > 50 °C

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions No additional information available.

Conditions to avoid Direct sunlight. Extremely high or low temperatures.

Incompatible materials Strong acids. Strong bases.

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

2-ethylhexyl benzoate (5444-75-7)		
LD50 oral rat	2500 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Male	
	/ female, Experimental value, Oral)	
LD50 dermal rat	>= 5000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female,	
	Experimental value, Dermal)	

Skin corrosion/irritation Not classified

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity May damage fertility or the unborn child.

STOT-single exposure Not classified STOT-repeated exposure Not classified Aspiration hazard Not classified

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.

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according to the Hazardous Products Regulation (February 11, 2015)

## **SECTION 12: Ecological information**

## 12.1. Toxicity

dibenzoyl peroxide (94-36-0)	
EC50 Daphnia 1	0.11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static
·	system, Fresh water, Experimental value, 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
2-ethylhexyl benzoate (5444-75-	7)
LC50 fish 1	> 0.66 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Flow-through
	system, Fresh water, Experimental value)
EC50 Daphnia 1	> 0.125 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-
	static system, Fresh water, Experimental value, GLP)

#### 12.2. Persistence and degradability

HIT-ICE, B	
Persistence and degradability	Not established.
dibenzoyl peroxide (94-36-0)	
Persistence and degradability	Readily biodegradable in water. Not established. May cause long-term adverse effects in the environment.
2-ethylhexyl benzoate (5444-75-7)	
Persistence and degradability	Readily biodegradable in water.

## 12.3. Bioaccumulative potential

HIT-ICE, B	
Bioaccumulative potential	Not established.
dibenzoyl peroxide (94-36-0)	
Log Pow	3.71
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
2-ethylhexyl benzoate (5444-75-7)	
BCF fish 1	184 l/kg (BCFBAF v3.00, Pisces, Fresh water, QSAR)
Log Pow	6.21 (No data available, Experimental value, OECD 117: Partition Coefficient (n-octanol/water),
Log Pow	

## 12.4. Mobility in soil

dibenzoyl peroxide (94-36-0)		
Surface tension	No data available (test not performed)	
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.	
2-ethylhexyl benzoate (5444-75-7)		
Log Koc	4.2944 (log Koc, Other, QSAR)	
Ecology - soil	Adsorbs into the soil.	

## 12.5. Other adverse effects

Other information Avoid release to the environment.

## **SECTION 13: Disposal considerations**

## 13.1. Disposal methods

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

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Product/Packaging disposal recommendations

After curing, the product can be disposed of with household waste. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations. Packaging contaminated by the product: Dispose in a safe manner in accordance with

local/national regulations.

Ecology - waste materials

Avoid release to the environment.

## **SECTION 14: Transport information**

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

ADR	IMDG	IATA	RID
14.1. UN number			
3108	3108	3108	3108
14.2. UN proper shipping r	name		
ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)	Organic peroxide type e, solid (dibenzoyl peroxide)	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
Transport document descript	ion		
UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), 5.2, (D)	UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), 5.2	UN 3108 Organic peroxide type e, solid (dibenzoyl peroxide), 5.2	UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), 5.2
14.3. Transport hazard cla	ss(es)		
5.2	5.2	5.2	5.2
5.2	5.2	5.2	5.2
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazar	ds		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg)			
	No supplementary	information available	

## 14.6. Special precautions for user

## - Overland transport

Classification code (ADR) P1
Special provisions (ADR) 122, 274
Limited quantities (ADR) 500g
Packing instructions (ADR) P520
Mixed packing provisions (ADR) MP4
Transport category (ADR) 2
Tunnel restriction code (ADR) D

- Transport by sea

Special provisions (IMDG) 122, 274
Limited quantities (IMDG) 500 g
Packing instructions (IMDG) P520

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according to the Hazardous Products Regulation (February 11, 2015)

EmS-No. (Fire)F-JEmS-No. (Spillage)S-RStowage category (IMDG)D

Stowage and segregation (IMDG) Protected from sources of heat 'Separated from' acids and alkalis.

MFAG-No 145

- Air transport

PCA packing instructions (IATA) 570
PCA max net quantity (IATA) 10kg
CAO packing instructions (IATA) 570
Special provisions (IATA) A20

- Rail transport

Special provisions (RID) 122, 274
Limited quantities (RID) 500g
Packing instructions (RID) P520
Carriage prohibited (RID) No

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

## **SECTION 15: Regulatory information**

### 15.1. National regulations

Quartz (SiO2) (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

dibenzoyl peroxide (94-36-0)

Listed on the Canadian DSL (Domestic Substances List)

## 15.2. International regulations

Quartz (SiO2) (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

dibenzoyl peroxide (94-36-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

2-ethylhexyl benzoate (5444-75-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## **SECTION 16: Other information**

 Date of issue
 01-31-2020

 Revision date
 01-31-2020

 Supersedes
 12-21-2015

Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification (GHS CA)	Modified	
2.2	Hazard pictograms (GHS CA)	Added	
2.2	Hazard statements (GHS CA)	Modified	
3.2	Composition/information on ingredients	Modified	
16	Additional information	Added	

Other information None.

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## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

## Full text of H-statements:

H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

## Abbreviations and acronyms:

Tradionio arra de	. en june
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

## SDS\_CA\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 01/31/2020 Revision date: 01/31/2020 Supersedes: 10/26/2016 Version: 6.4

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

#### 1.1. Product identifier

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

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

No additional information available

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

Supplier

Hilti (Canada) Corp. 2360 Meadowpine Boulevard

L5N 6S2 Mississauga, Ontario - Canada

T +1905 8139200

1-800-363-4458 toll free - F +1 905 813 9009

Department issuing data specification sheet

Hilti Entwicklungsgesellschaft mbH

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86916 Kaufering - Deutschland

T +49 8191 906876 anchor.hse@hilti.com

#### 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)

## **SECTION 2: Hazards identification**

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

#### Classification (GHS CA)

Skin Sens. 1 Aquatic Chronic 3 Full text of H statements : see section 16

H317 H412

#### 2.2. Label elements

#### **GHS CA labelling**

Hazard pictograms (GHS CA)



GHS07

Signal word (GHS CA) Warning

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

H412 - Harmful to aquatic life with long lasting effects.

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

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

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

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

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

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

#### 2.3. Other hazards

No additional information available

## 2.4. Unknown acute toxicity (GHS CA)

No data available

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according to the Hazardous Products Regulation (February 11, 2015)

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

## 3.1. Substances

Not applicable

## 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Quartz (SiO2)	quartz / quartz (SiO2) / quartz flour, 1%≤conc respirable crystalline silica<10% / silicon (di)oxide (quartz), 1%≤conc respirable crystalline silica<10%	(CAS-No.) 14808-60-7	40 - 60	Carc. 1A, H350
Ethoxylated Bisphenol A Dimethacrylate	bisphenol A ethoxylate (2 EO/phenol) dimethacrylate, technical, average MW=540 / poly(oxy-1,2-ethanediyl), alpha, alpha'-[(1-methylethylidene)di-4,1-phenylene]bis[omega-[(2-methyl-1-oxo-2-propenyl)oxy]-	(CAS-No.) 41637-38-1	10 - 25	Aquatic Chronic 4, H413
1,6-hexanediyl bismethacrylate	1,6-HDDMA / 1,6-hexanediyl bis(2-methacrylate) / 1,6-hexanediyl bismethacrylate / 2-methyl-1,6-hexanediyl-2-propanoate / 2-propenoic acid, 2-methyl-, 1,6-hexanediyl ester / hexane-1,6-diyl bis(2-methacrylate) / hexane-1,6-diyl bis(2-methylprop-2-enoate)	(CAS-No.) 6606-59-3	5 - 10	Aquatic Chronic 3, H412
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	1,2-propanediol, 2-methyl, monomethacrylate / 2-propenoic acid, 2-methyl-, 2-hydroxymethylethyl ester / 2-propenoic acid, 2-methyl-, monoester with 1,2-propanediol / hydroxypropyl methacrylate / methacrylic acid, ester with 1,2-propanediol / methacrylic acid, monoester with 1,2-propanediol / methacrylic acid, monoester with propane-1,2-diol / propylene glycol monomethacrylate / ROCRYL 410	(CAS-No.) 27813-02-1	5 - 10	Eye Irrit. 2A, H319 Skin Sens. 1, H317
1,1,1-Trimethylolpropane trimethacrylate		(CAS-No.) 3290-92-4	2.5 - 5	Aquatic Chronic 2, H411
1,1'-(p-tolylimino)dipropan-2-ol	DiPpT	(CAS-No.) 38668-48-3	0.1 - 1	Acute Tox. 2 (Oral), H300 Eye Irrit. 2A, H319 Aquatic Chronic 3, H412
Methyl methyacrylate	methyl methacrylate; methyl 2- methylprop-2-enoate; methyl 2- methylpropenoate 2-(methoxycarbonyl)-1-propene / 2- methyl propenoic acid, methyl ester / 2-methyl-2-propenoic acid, methyl ester / 2-propenoic acid, 2-methyl-, methyl ester / acrylic acod, 2-methyl-, methyl ester / diakon / methacrylic acid methyl ester / methyl 2- methylacrylate / methyl 2- methylprop-2-enoate / methyl 2- methylpropenoate / methyl 2- methylpropenoate / methyl-2- methylacrylate / methyl-2-methyl-2- propenoate / methyl-alpha- methylacrylate / methyl-alpha- methylacrylate / methylpropylene-2-carboxylate / MMA / MME / monocite methacrylate monomer / pegalan	(CAS-No.) 80-62-6	0.11004 - 0.14148	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335

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

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## **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. Drink plenty of water. Get medical advice/attention. Do not induce vomiting.

Obtain emergency medical attention.

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

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

Symptoms/effects after eye contact May cause severe irritation.

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

No additional information available

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

#### 5.1. Suitable extinguishing media

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

#### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream.

#### 5.3. Specific hazards arising from the hazardous product

No additional information available

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

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.

## 6.2. Methods and materials 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.

#### 6.3. Reference to other sections

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

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## **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

Quartz (SiO2) (14808-60-7)		
Ontario	OEL TWA (mg/m³)	0.1 mg/m³
Ontario	Notations and remarks	(R)
Ontario	Regulatory reference	Ontario Occuational Exposure Limits under Regulation 833

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

for this product.

#### 8.2. Appropriate engineering controls

Environmental exposure controls Avoid release to the environment.

## 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.

Eye protection Wear security glasses which protect from splashes.

Skin and body protection Wear suitable protective clothing. Environmental exposure controls Avoid release to the environment.

Consumer exposure controls Avoid contact during pregnancy/while nursing.

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

## **SECTION 9: Physical and chemical properties**

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

Physical state Solid

Appearance Thixotropic paste.

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Colour

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Grey. Odour characteristic.

Odour threshold Not determined рΗ No data available Relative evaporation rate (butylacetate=1) No data available Melting point No data available Freezing point No data available No data available Boiling point Flash point No data available Not self-igniting Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) Non flammable. Vapour pressure No data available

Relative vapour density at 20 °C No data available Relative density No data available 1.69 a/ml DIN 51757 Density Water: Not miscible Solubility Log Pow No data available

No data available Viscosity, kinematic Viscosity, dynamic 55 Pa·s HN-0333 Explosive properties Product is not explosive. No data available Oxidising properties Explosive limits No data available

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Chemical stability Stable under normal conditions Possibility of hazardous reactions No additional information available.

Conditions to avoid Direct sunlight. Extremely high or low temperatures.

Incompatible materials Strong acids. Strong bases.

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

hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity (oral) Not classified Not classified Acute toxicity (dermal) Acute toxicity (inhalation) Not classified

Ethoxylated Bisphenol A Dimethacrylate (41637-38-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

1,6-hexanediyl bismethacrylate (6606-59-3)	
--	--

1,6-nexanediyi bismethacrylate (6606-59-5)		
LD50 oral rat	> 15000 mg/kg (Rat; Literature study)	

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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 bodyweight;		
LDEO de marchaeld "	Rat; Experimental value)		
LD50 dermal rabbit	>= 5000 mg/kg bodyweight (Rabbit; Experimental value)		
1,1,1-Trimethylolpropane trimethacrylate (3			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rat	> 3000 mg/kg		
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)			
LD50 oral rat	25 mg/kg		
LD50 dermal rat	> 2000 mg/kg		
Methyl methyacrylate (80-62-6)			
LD50 oral rat	> 6000 mg/kg (Rat; Equivalent or similar to OECD 401; Literature study; 7900 mg/kg		
	bodyweight; Rat; Equivalent or similar to OECD 401; Weight of evidence; 8400 mg/kg bodyweight; Rat; Weight of evidence)		
LD50 dermal rabbit	> 7550 mg/kg (Rabbit; Literature study; Equivalent or similar to OECD 402; >5000 mg/kg		
	bodyweight; Rabbit; Experimental value)		
LC50 inhalation rat (mg/l)	27.5 mg/l/4h (Rat; Literature study)		
Skin corrosion/irritation	Not classified		
Serious eye damage/irritation	Not classified		
Respiratory or skin sensitization	May cause an allergic skin reaction.		
Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity	Not classified		
STOT-single exposure	Not classified		
STOT-repeated exposure	Not classified		
Aspiration hazard	Not classified		
HIT-ICE, A			
Viscosity, kinematic	32544.379 mm²/s		
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

Ethoxylated Bisphenol A Dimethacrylate (41637-38-1)		
LC50 fish 1	> 100 mg/l	
EC50 Daphnia 1	> 100 mg/l	
NOEC (acute)	> 100 mg/l	
1,6-hexanediyl bismethacrylate (6606-59-3)		
LC50 fish 1	4.5 mg/l (96 h; Brachydanio rerio)	
2-Propenoic acid, 2-methyl-, monoester with	1,2-propanediol (27813-02-1)	
LC50 fish 1	493 mg/l (48 h; Leuciscus idus; GLP)	
EC50 Daphnia 1	> 143 mg/l (48 h; Daphnia magna; GLP)	
Threshold limit algae 1	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)	
Threshold limit algae 2	> 97.2 mg/l (72 h; Pseudokirchneriella subcapitata; GLP)	
1,1,1-Trimethylolpropane trimethacrylate (329	90-92-4)	
LC50 fish 1	2 mg/l	
ErC50 (algae)	3.88 mg/l	
NOEC chronic fish	0.138 mg/l	
NOEC chronic crustacea	0.177 mg/l	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
LC50 fish 1	≈ 17 mg/l	
LC50 other aquatic organisms 1	245 mg/l	
EC50 Daphnia 1	28.8 mg/l	

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NOEC (acute)	57.8 mg/l	
Methyl methyacrylate (80-62-6)		
LC50 fish 1	130 mg/l (96 h; Pimephales promelas; Lethal)	
EC50 Daphnia 1	69 mg/l (48 h; Daphnia magna; GLP)	
LC50 fish 2	191 mg/l (96 h; Lepomis macrochirus)	
EC50 Daphnia 2	502 mg/l (24 h; Daphnia magna)	
TLM fish 1	159 mg/l (96 h; Pimephales promelas)	
Threshold limit other aquatic organisms 1	100 mg/l (16 h; Pseudomonas putida)	
Threshold limit algae 1	37 mg/l (168 h; Scenedesmus quadricauda; Toxicity test)	
Threshold limit algae 2	120 mg/l (192 h; Microcystis aeruginosa)	

## 12.2. Persistence and degradability

•		
HIT-ICE, A		
Persistence and degradability	Not established.	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Persistence and degradability	Readily biodegradable in water.	
Methyl methyacrylate (80-62-6)		
Biochemical oxygen demand (BOD)	0.14 g O <sub>2</sub> /g substance	
ThOD	1.9 g O <sub>2</sub> /g substance	
BOD (% of ThOD)	0.073	

## 12.3. Bioaccumulative potential

HIT-ICE, A			
Bioaccumulative potential	Not established.		
Ethoxylated Bisphenol A Dimethacrylate (	Ethoxylated Bisphenol A Dimethacrylate (41637-38-1)		
Bioconcentration factor (BCF REACH)	52.13		
Log Pow	3.43 - 5.62 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)		
Log Kow	5.3		
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)			
DOE 6-1-4	4- 100		

2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
BCF fish 1	<= 100	
BCF fish 2	3.2 Quantitative structure-activity relationship (QSAR)	
Log Pow	0.97 (OECD 102 method)	
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).	
44471 (111 41 11 (1000 00 1)		

1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)	
BCF fish 2	366 I/kg
Log Pow	3.53
Log Kow	4.39

Log Now	4.35	
1,1'-(p-tolylimino)dipropan-2-ol (38668-48-3)		
BCF fish 1	≈	
Log Kow	2.1	

Methyl methyacrylate (80-62-6)	
BCF fish 1	2.97 - 3.5 (Pisces)
Log Pow	1.32 - 1.38 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask
	Method; 20 °C)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

## 12.4. Mobility in soil

Ethoxylated Bisphenol A Dimethacrylate (41637-38-1)		
Log Koc	2.56 (2.56 - 3.88)	
Ecology - soil	Low potential for adsorption in soil.	
1,6-hexanediyl bismethacrylate (6606-59-3)		
Ecology - soil	No (test)data on mobility of the substance available.	
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol (27813-02-1)		
Ecology - soil Low potential for adsorption in soil.		
Methyl methyacrylate (80-62-6)		
Methyl methyacrylate (80-62-6)		
Surface tension	28.9 mN/m (20 °C)	

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Ecology - soil Highly mobile in soil.

#### 12.5. Other adverse effects

Other information Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

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

emptied cartridges must be disposed of as special waste in accordance with official regulations.

Packaging contaminated by the product : Dispose in a safe manner in accordance with

local/national regulations.

Ecology - waste materials Avoid release to the environment.

## **SECTION 14: Transport information**

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

ADR	IMDG	IATA	RID
14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping r	ame		
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class	ss(es)		
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available			

## 14.6. Special precautions for user

- Overland transport
- Transport by sea

No data available

- Air transport

No data available

- Rail transport

Carriage prohibited (RID) No

## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

## **SECTION 15: Regulatory information**

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#### 15.1. National regulations

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2. International regulations

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## Ethoxylated Bisphenol A Dimethacrylate (41637-38-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 1,6-hexanediyl bismethacrylate (6606-59-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 1,1,1-Trimethylolpropane trimethacrylate (3290-92-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Methyl methyacrylate (80-62-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

## **SECTION 16: Other information**

 SDS Major/Minor
 None

 Date of issue
 01-31-2020

 Revision date
 01-31-2020

 Supersedes
 10-26-2016

## Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification (GHS CA)	Removed	
2.2	Hazard statements (GHS CA)	Removed	
3.2	Composition/information on ingredients	Modified	
16	Additional information	Added	

Other information None.

## Full text of H-statements:

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

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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

SDS\_CA\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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