

# CC412-1 Crack sealing compound

## Safety information for 2-Component-products

Issue date: 27/01/2022

Revision date: 27/01/2022

Supersedes: 18/06/2021

Version: 5.0

### SECTION 1: Kit identification

#### 1.1 Product identifier

Product name	CC412-1 Crack sealing compound
Product code	BU Fire Protection

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

### SECTION 2: General information

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

### SECTION 3: Kit contents

#### Classification of the Product

##### Classification (GHS CA)

Skin corrosion/irritation, Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Germ cell mutagenicity, Category 2	H341
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)



GHS05

GHS07

GHS08

GHS09

Signal word (GHS CA)

Danger

Hazardous ingredients

2,3-epoxypropyl o-tolyl ether,(A) bis-[4-(2,3-epoxipropoxy)phenyl]propane(A), polyethylenepolyamines (B), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol(B)

Hazard statements (GHS CA)

H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H341 - Suspected of causing genetic defects.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (GHS CA)

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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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.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P310 - Immediately call a POISON CENTER or doctor.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P363 - Wash contaminated clothing before reuse.  
P391 - Collect spillage.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### Additional information

Name	General description	Quantity	Unit	Classification (GHS CA)
CC412, A		1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411
CC412, B		1	pcs (pieces)	Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

### SECTION 4: General advice

General advice

For professional users only

### SECTION 5: Safe handling advice

Environmental precautions

Avoid release to the environment  
Prevent entry to sewers and public waters

Storage conditions

Store in a well-ventilated place. Keep cool.  
Store in a dry place.

Precautions for safe handling

Avoid contact with skin, eyes and clothing  
Do not eat, drink or smoke when using this product.  
Do not handle until all safety precautions have been read and understood.

Methods for cleaning up

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

Incompatible products

Oxidizing agent  
Strong acids  
Strong bases

### SECTION 6: First aid measures

First-aid measures after eye contact

If eye irritation persists: Get medical advice/attention.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion

Rinse mouth  
Call a physician immediately

First-aid measures after inhalation

Remove person to fresh air and keep comfortable for breathing.  
If you feel unwell, seek medical advice

First-aid measures after skin contact

Wash skin with plenty of water  
If skin irritation occurs: Get medical advice/attention.

Symptoms/effects after eye contact

Causes serious eye damage.

Symptoms/effects after ingestion

Burns

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Safety information for 2-Component-products

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Symptoms/effects after skin contact

Burns

May cause an allergic skin reaction.

Other medical advice or treatment

Treat symptomatically

## SECTION 7: Fire fighting measures

Extinguishing agents - fire fighting instructions

Foam, carbon dioxide (CO<sub>2</sub>) and powder

Protection during firefighting

Do not attempt to take action without suitable protective equipment

Hazardous decomposition products in case of fire

Toxic fumes may be released

## SECTION 8: Other information

No data available

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## Safety Data Sheet

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

Issue date: 01/27/2022

Revision date: 01/27/2022

Supersedes: 06/18/2021

Version: 4.1

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	Mixture
Product name	CC412, B
Product code	BU Fire Protection

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

#### 1.3. Supplier

**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 AG  
Feldkircherstraße 100  
9494 Schaan - Liechtenstein  
T +423 234 2111  
[chemicals.hse@hilti.com](mailto:chemicals.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)
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### SECTION 2: Hazard identification

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

**Classification (GHS CA)**

Skin corrosion/irritation, Category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410	Very toxic to aquatic life with long lasting effects.

Full text of H-statements: see section 16

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

**GHS CA labelling**

Hazard pictograms (GHS CA)



Signal word (GHS CA)

Danger

Hazard statements (GHS CA)

H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statements (GHS CA)

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### 2.3. Other hazards

No additional information available

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

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
polyethylenepolyamines	amines, polyethylenepoly / amines, polyethylenepoly- / crude polyamine bottoms / HEPA / imines, poly-, polyethylene / polyamines (polymeric), polyethylene- / polyamines, polyethylene- / polyimines, polyethylene-	(CAS-No.) 68131-73-7	30 – 50	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzyl alcohol	benzyl alcohol	(CAS-No.) 100-51-6	10 – 20	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol		(CAS-No.) 9003-36-5	0.1 – 0.5	Skin Irrit. 2, H315 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 after inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Immediately call a POISON CENTER/doctor.
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	May cause an allergic skin reaction.
Symptoms/effects after eye contact	Causes serious eye damage.
Symptoms/effects after ingestion	Swallowing a small quantity of this material will result in serious health hazard.
Potential adverse human health effects and symptoms	Harmful if swallowed.

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

No additional information available

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### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

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

#### 5.4. 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                      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

No additional information available

#### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up                      Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 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                      Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures                      Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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

Technical measures                      Comply with applicable regulations.

Storage conditions                      Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products                      Strong bases. Strong acids.

Incompatible materials                      Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls                      Ensure good ventilation of the work station.

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

#### Personal protective equipment:

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

#### Hand protection:

Wear protective gloves.

#### Eye protection:

Chemical goggles or face shield

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear appropriate mask

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



#### 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	Liquid
Appearance	Pasty.
Colour	Black
Odour	Amine-like
Odour threshold	No data available
pH	Not determined
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	200 °C
Flash point	> 60 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Vapour pressure at 50 °C	No data available
Relative density	1.3 – 1.4
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Explosive limits	No data available

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

Reactivity	Corrosive vapours.
Chemical stability	Not established.
Possibility of hazardous reactions	Not established.
Conditions to avoid	Direct sunlight. Extremely high or low temperatures.
Incompatible materials	Strong acids. Strong bases.
Hazardous decomposition products	fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.
Hardening time:	No additional information available

### 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

Benzyl alcohol (100-51-6)	
LD50 oral rat	1620 mg/kg
LC50 Inhalation - Rat	> 4178 mg/m <sup>3</sup>
ATE CA (oral)	500 mg/kg bodyweight

polyethylenepolyamines (68131-73-7)	
ATE CA (oral)	500 mg/kg bodyweight
ATE CA (Dermal)	1100 mg/kg bodyweight

Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)	
LD50 oral rat	> 5000 mg/kg bodyweight (Rat; ECHA)
LD50 dermal rat	> 2000 mg/kg bodyweight (Rat; ECHA)

Skin corrosion/irritation	Causes severe skin burns. pH: Not determined
Serious eye damage/irritation	Causes serious eye damage. pH: Not determined
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified

Reproductive toxicity	Not classified
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STOT-single exposure	Not classified
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STOT-repeated exposure	Not classified
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Aspiration hazard	Not classified
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Potential adverse human health effects and symptoms	Harmful if swallowed.
Symptoms/effects	Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	May cause an allergic skin reaction.
Symptoms/effects after eye contact	Causes serious eye damage.
Symptoms/effects after ingestion	Swallowing a small quantity of this material will result in serious health hazard.



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### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - water	Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	Very toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

CC412, B	
Persistence and degradability	May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative potential

CC412, B	
Bioaccumulative potential	Not established.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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			
UN 2735	UN 2735	UN 2735	UN 2735
14.2. UN proper shipping name			
POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamines)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamines)	Polyamines, liquid, corrosive, n.o.s. (polyethylenepolyamines)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamines)

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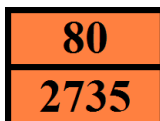
according to the Hazardous Products Regulation (February 11, 2015)

ADR	IMDG	IATA	RID
Transport document description			
UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamines), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamines), 8, III, MARINE POLLUTANT/ENVIRONMENTAL LY HAZARDOUS	UN 2735 Polyamines, liquid, corrosive, n.o.s. (polyethylenepolyamines), 8, III, ENVIRONMENTALLY HAZARDOUS	UN 2735 POLYAMINES, LIQUID, CORROSIVE, N.O.S. (polyethylenepolyamines), 8, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)			
8	8	8	8
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available			

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	C7
Special provisions (ADR)	274
Limited quantities (ADR)	5I
Packing instructions (ADR)	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	MP19
Transport category (ADR)	3
Orange plates	



Tunnel restriction code (ADR)	E
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#### Transport by sea

Special provisions (IMDG)	223, 274
Limited quantities (IMDG)	5 L
Packing instructions (IMDG)	P001, LP01
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-B
Stowage category (IMDG)	A
Segregation (IMDG)	SGG18, SG35
MFAG-No	153

#### Air transport

PCA packing instructions (IATA)	852
PCA max net quantity (IATA)	5L
CAO packing instructions (IATA)	856
Special provisions (IATA)	A3, A803

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### Rail transport

Special provisions (RID)	274
Limited quantities (RID)	5L
Packing instructions (RID)	P001, IBC03, LP01, R001

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

<b>CC412, B</b>	
Canada DSL & NDSL Flags	All components of this product are listed, or excluded from listing, on the Canadian Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
<b>Benzyl alcohol (100-51-6)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>polyethylenepolyamines (68131-73-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol (9003-36-5)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

## SECTION 16: Other information

Issue date	01-27-2022
Revision date	01-27-2022
Supersedes	06-18-2021

Indication of changes:

Section	Changed item	Change	Comments
14		Modified	

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

Full text of H-statements:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.



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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)

Issue date: 01/27/2022

Revision date: 01/27/2022

Supersedes: 06/18/2021

Version: 5.0

### SECTION 1: Identification

#### 1.1. Product identifier

Product form	Mixture
Product name	CC412, A
Product code	BU Fire Protection

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

#### 1.3. Supplier

##### 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 AG  
Feldkircherstraße 100  
9494 Schaan - Liechtenstein  
T +423 234 2111  
[chemicals.hse@hilti.com](mailto:chemicals.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)
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### SECTION 2: Hazard identification

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

##### Classification (GHS CA)

Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2A	H319	Causes serious eye irritation.
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2	H341	Suspected of causing genetic defects.
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411	Toxic to aquatic life with long lasting effects.
Full text of H-statements: see section 16		

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

##### GHS CA labelling

Hazard pictograms (GHS CA)



Signal word (GHS CA)

Warning

Hazard statements (GHS CA)

H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H341 - Suspected of causing genetic defects.  
H411 - Toxic to aquatic life with long lasting effects.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Precautionary statements (GHS CA)



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

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### 2.3. Other hazards

No additional information available

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

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
bis-[4-(2,3-epoxypropoxy)phenyl]propane	2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane / 2,2-bis(4-(2,3-epoxypropyloxy)phenyl)propane / 2,2-bis(4-glycidyloxyphenyl)propane / 2,2-bis-(4-hydroxyphenyl)propan bis(2,3-epoxypropyl)ether / 2,2-bis(4-hydroxyphenyl)propane diglycidyl ether / 2,2-bis(para-(2,3-epoxypropoxy)phenyl)propane / 2,2-bis(para-(2,3-glycidyloxy)phenyl)propane / 2,2-bis(para-glycidyloxyphenyl)propane / 2,2-bis(para-hydroxyphenyl)propane, diglycidyl ether / 2,2-bis(p-glycidyloxyphenyl)propane / 2,2-bis(p-hydroxyphenyl)propane, diglycidyl ether / 2,2-bis[4-(2,3-epoxypropoxy)phenyl]propane / 2,2-bis-[4(2,3-epoxypropyloxyphenyl)]propane / 4,4'-bis(2,3-epoxypropoxy)diphenylmethane / 4,4'-dihydroxydiphenyldimethylmethane diglycidyl ether / 4,4'-isopropylidene-bis(1-(2,3-epoxypropoxy)benzene) / 4,4'-isopropylidenediphenol diglycidyl ether / 4,4'-isopropylidenediphenol epichlorohydrin resin / araldite 6005 / BADGE / bis(4-glycidyloxyphenyl)dimethylmethane / bis(4-hydroxyphenyl)dimethylmethane diglycidyl ether / bis[4-(2,3-epoxypropoxy)phenyl]propane / bisphenol A diglycidyl ether / bisphenol A epichlorohydrin condensate / BPDGE / DER332 / dian diglycidyl ether / dian-bis(glycidyl ether) / diglycidyl bisphenol A / diglycidyl bisphenol A ether / diglycidyl diphenylolpropane ether / diglycidyl ether of 2,2-bis(4-hydroxyphenyl)propane / diglycidyl ether of 2,2-bis(para-hydroxyphenyl)propane / diglycidyl ether of 4,4'-isopropylidenediphenol / diglycidyl ether of bisphenol A / diomethane diglycidyl ether / epi-rez 508 / epi-rez 510 / epotuf 37-140 / epoxide A / ERL-2774 / GY 6010 / oligomer 340 / oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis- / p,p'-dihydroxydiphenyldimethylmethane diglycidyl ether / para,para'-dihydroxydiphenyldimethylmethane diglycidyl ether / propane, 2,2-bis(p-(2,3-epoxypropoxy)phenyl)-	(CAS-No.) 1675-54-3	30 – 50	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
2,3-epoxypropyl o-tolyl ether	2,3-epoxypropyl o-tolyl ether [(2-methylphenoxy)methyl] oxirane / 1,2-epoxy-3-(ortho-tolyloxy)propane / 1,2-epoxy-3-(o-tolyloxy)propane / 2,3-epoxypropyl o-tolyl ether / 2,3-epoxypropyl-ortho-tolyl ether / 2-[(2-methylphenoxy)methyl]oxirane / 2-methylphenyl glycidyl ether / ARALDITE DY 023 / glycidyl 2-methylphenyl ether / glycidyl o-methylphenyl ether / glycidyl ortho-methylphenyl ether / glycidyl ortho-tolyl ether / glycidyl o-tolyl ether / o-cresyl glycidyl ether / ortho-cresyl glycidyl ether / oxirane, [(2-methylphenoxy)methyl]-	(CAS-No.) 2210-79-9	10 – 30	Muta. 2, H341 Skin Irrit. 2, H315 Skin Sens. 1, H317

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Quartz (SiO <sub>2</sub> )	quartz / quartz (SiO <sub>2</sub> ) / quartz flour, 1%≤conc respirable crystalline silica<10% / silicon (di)oxide (quartz), 1%≤conc respirable crystalline silica<10%	(CAS-No.) 14808-60-7	10 – 20	Carc. 1A, H350
Titanium dioxide		(CAS-No.) 13463-67-7	0.1 – 0.5	Carc. 2, H351

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 after inhalation	Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs:
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
First-aid measures general	IF exposed or concerned: Get medical advice/attention. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	May cause an allergic skin reaction.
Symptoms/effects after skin contact	Irritation. May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	Eye irritation. Causes serious eye irritation.
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

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

Other medical advice or treatment	Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

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

Unsuitable extinguishing media	Do not use a heavy water stream.
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### 5.3. Specific hazards arising from the hazardous product

Hazardous decomposition products in case of fire	Toxic fumes may be released.
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### 5.4. 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	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.



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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

#### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up

Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.

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

Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust. 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. Use personal protective equipment as required.

Hygiene measures

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling.

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

Storage conditions

Store locked up. Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products

Strong bases. Strong acids.

Incompatible materials

Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

Environmental exposure controls

Avoid release to the environment.

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

**Personal protective equipment:**

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

**Hand protection:**

Gloves. EN 374. Wear protective gloves.

**Eye protection:**

Safety glasses. EN 166. EN 170. Chemical goggles or safety glasses

**Skin and body protection:**

Wear suitable protective clothing

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### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection. Filter AX (brown). Wear appropriate mask

### Personal protective equipment symbol(s):



### 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	Liquid
Appearance	Pasty.
Colour	Beige
Odour	mild
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Relative evaporation rate (ether=1)	No data available
Melting point	No data available
Freezing point	Not applicable
Boiling point	No data available
Flash point	> 60 °C Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Non flammable.
Vapour pressure	No data available
Vapour pressure at 50 °C	No data available
Relative density	No data available
Density	1.38 kg/l
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	25000 – 30000 mPa·s
Explosive limits	Not applicable

### 9.2. Other information

VOC content : 0 %

## SECTION 10: Stability and reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions. Not established.
Possibility of hazardous reactions	No additional information available. Not established.
Conditions to avoid	Heat. Direct sunlight. Extremely high or low temperatures.
Incompatible materials	Strong acids. Strong bases. Oxidizing agent.

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Hazardous decomposition products

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

Hardening time:

No additional information available

## 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

2,3-epoxypropyl o-tolyl ether (2210-79-9)	
LD50 oral rat	> 5000 mg/kg (Rat, Oral)
LD50 dermal rat	> 2000 mg/kg (Rat, Dermal)
LC50 Inhalation - Rat	6.09 mg/l (4 h, Rat, Inhalation)

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))

bis-[4-(2,3-epoxipropoxy)phenyl]propane (1675-54-3)	
LD50 oral rat	> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	Not classified

Reproductive toxicity	Not classified
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STOT-single exposure	Not classified
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STOT-repeated exposure	Not classified
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Aspiration hazard	Not classified
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Viscosity, kinematic	Not applicable

Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	May cause an allergic skin reaction.
Symptoms/effects after skin contact	Irritation. May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	Eye irritation. Causes serious eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	Harmful to aquatic life with long lasting effects.
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Ecology - water	Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Toxic to aquatic life with long lasting effects.

2,3-epoxypropyl o-tolyl ether (2210-79-9)	
LC50 - Fish [1]	1 – 10 mg/l (Pisces)
EC50 - Crustacea [1]	1 – 10 mg/l (Invertebrata)
Partition coefficient n-octanol/water (Log Pow)	2.16 (Estimated value)

Titanium dioxide (13463-67-7)	
LC50 - Fish [1]	> 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)
LC50 - Other aquatic organisms [1]	> 500 mg/l
ErC50 algae	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)

bis-[4-(2,3-epoxypropoxy)phenyl]propane (1675-54-3)	
LC50 - Fish [1]	1.2 mg/l (96 h; Oncorhynchus mykiss; Lethal)
LC50 - Fish [2]	2.3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)
EC50 72h - Algae [1]	9.4 mg/l (EPA 660/3 - 75/009, Selenastrum capricornutum, Static system, Fresh water, Experimental value, Biomass)
BCF - Other aquatic organisms [1]	31 (Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Threshold limit - Algae [1]	> 11 mg/l (72 h; Scenedesmus sp.)
Threshold limit - Algae [2]	4.2 mg/l (72 h; Scenedesmus sp.)

### 12.2. Persistence and degradability

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Persistence and degradability	May cause long-term adverse effects in the environment.
2,3-epoxypropyl o-tolyl ether (2210-79-9)	
Persistence and degradability	Biodegradability in soil: no data available. Not readily biodegradable in water.
Quartz (SiO2) (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Titanium dioxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
2,3-epoxypropyl o-tolyl ether (2210-79-9)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
Partition coefficient n-octanol/water (Log Pow)	2.16 (Estimated value)
Quartz (SiO2) (14808-60-7)	
Bioaccumulative potential	No bioaccumulation data available.
Titanium dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.

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bis-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3)	
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).
BCF - Other aquatic organisms [1]	31 (Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)

### 12.4. Mobility in soil

2,3-epoxypropyl o-tolyl ether (2210-79-9)	
Partition coefficient n-octanol/water (Log Pow)	2.16 (Estimated value)
Quartz (SiO <sub>2</sub> ) (14808-60-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
Titanium dioxide (13463-67-7)	
Surface tension	No data available in the literature
Ecology - soil	Low potential for mobility in soil.
bis-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3)	
Surface tension	59 mN/m (20 °C, 0.09 g/l)
Ecology - soil	Low potential for adsorption in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Partition coefficient n-octanol/water (Log Pow)	≥ 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)

### 12.5. Other adverse effects

Ozone	Not classified
Other information	Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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			
UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane)	Environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane)

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ADR	IMDG	IATA	RID
Transport document description			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane), 9, III	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (bis-[4-(2,3-epoxipropoxi)phenyl]propane), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis-[4-(2,3-epoxipropoxi)phenyl]propane), 9, III
14.3. Transport hazard class(es)			
9	9	9	9
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.			
not restricted according ADR Special Provision SP375, IATA-DGR Special Provision A197 and IMDG-Code 2.10.2.7			

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	M6
Special provisions (ADR)	274, 335, 375, 601
Limited quantities (ADR)	5I
Packing instructions (ADR)	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	MP19
Transport category (ADR)	3
Orange plates	

Tunnel restriction code (ADR)

-

#### Transport by sea

Special provisions (IMDG)	274, 335, 969
Limited quantities (IMDG)	5 L
Packing instructions (IMDG)	LP01, P001
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	A
MFAG-No	171

#### Air transport

PCA packing instructions (IATA)	964
PCA max net quantity (IATA)	450L
CAO packing instructions (IATA)	964
Special provisions (IATA)	A97, A158, A197, A215

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### Rail transport

Special provisions (RID)	274, 335, 375, 601
Limited quantities (RID)	5L
Packing instructions (RID)	P001, IBC03, LP01, R001

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. National regulations

<b>CC412, A</b>	
Canada DSL & NDSL Flags	All components of this product are listed, or excluded from listing, on the Canadian Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
<b>2,3-epoxypropyl o-tolyl ether (2210-79-9)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Quartz (SiO<sub>2</sub>) (14808-60-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>Titanium dioxide (13463-67-7)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>bis-[4-(2,3-epoxypropoxy)phenyl]propane (1675-54-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	

## SECTION 16: Other information

Issue date	01-27-2022
Revision date	01-27-2022
Supersedes	06-18-2021

Indication of changes:

Section	Changed item	Change	Comments
14		Modified	

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

None.

Full text of H-statements:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.



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