

# RM 710

## Safety information for 3-Component-products

Date of issue: 07/11/2017

Revision date: 07/11/2017

Supersedes: 26/04/2016

Version: 2.1

### SECTION 1: Kit identification

#### 1.1 Product identifier

Product name RM 710  
Product code BU Fire Protection

#### 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

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 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Skin sensitisation, Category 1	H317
Germ cell mutagenicity, Category 2	H341

#### Label elements

##### GHS-CA labelling

Hazard pictograms (GHS-CA)



GHS05

GHS07

GHS08

Signal word (GHS-CA)

Danger

Hazard statements (GHS-CA)

H302+H312 - Harmful if swallowed or in contact with skin  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.  
H335 - May cause respiratory irritation.  
H350 - May cause cancer.  
H361 - Suspected of damaging fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-CA)

P260 - Do not breathe dust, vapours.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.

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## Safety information for 3-Component-products

### Additional information

No substance or mixture included in the following Kit components is hazardous according to Regulation (EC) No. 1272/2008 [CLP] and therefore the requirements of Regulation (EU) 2015/830 do not apply

Name	General description	Quantity	Unit	Classification (GHS-CA)
RM 710, A		1	pcs	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Skin Sens. 1, H317
RM 710, B		1	pcs	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 3, H335
RM 710, C		1	pcs	Eye Irrit. 2B, H320 Carc. 1A, H350 STOT RE 1, H372

### SECTION 4: General advice

No data available

### SECTION 5: Safe handling advice

Environmental precautions	Avoid release to the environment. Prevent entry to sewers and public waters
Storage conditions	Keep cool. Protect from sunlight. Store in a well-ventilated place.
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 Do not breathe vapours. Wear personal protective equipment
Methods for cleaning up For containment	Take up liquid spill into absorbent material Collect spillage.

### SECTION 6: First aid measures

First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid measures after ingestion	Rinse mouth. Do not induce vomiting Get immediate medical advice/attention.
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	Rinse skin with water/shower. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
Symptoms/effects after eye contact	Serious damage to eyes
Symptoms/effects after ingestion	Burns
Symptoms/effects after inhalation	May cause respiratory irritation.
Symptoms/effects after skin contact	Burns May cause an allergic skin reaction.
Other medical advice or treatment	Treat symptomatically

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Safety information for 3-Component-products

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## SECTION 7: Fire fighting measures

Protection during firefighting

Do not attempt to take action without suitable protective equipment  
Self-contained breathing apparatus  
Complete protective clothing

Hazardous decomposition products in case of fire

Toxic fumes may be released

## SECTION 8: Other information

No data available

# RM 710, A

## Safety Data Sheet

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

Date of issue: 01/09/2018

Revision date: 01/09/2018

Supersedes: 04/18/2016

Version: 2.1

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

#### 1.1. Product identifier

Product form	Mixture
Product name	RM 710, A
Product code	BU Fire Protection

#### 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

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

#### 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: Hazards identification

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

##### Classification (GHS-CA)

Acute Tox. 4 (Dermal)	H312
Skin Corr. 1B	H314
Skin Sens. 1	H317

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-CA labelling

Hazard pictograms (GHS-CA)



GHS05



GHS07

Signal word (GHS-CA)

Danger

Hazard statements (GHS-CA)

H312 - Harmful in contact with skin.  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.

Precautionary statements (GHS-CA)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 - Wear 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

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contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.

### 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)
Bisphenol-A-Epichlorhydrin Epoxy resin Average MW < 700		(CAS-No.) 25068-38-6	60-90	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317
Glycidyl ether		(CAS-No.) Company secret	5-15	Skin Irrit. 2, H315 Skin Sens. 1, H317
Aliphatic Acrylic Ester		(CAS-No.) Company secret	<10	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Irrit. 2, 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.
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.
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.
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell.

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

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

### 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.
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### 5.2. Unsuitable extinguishing media

No additional information available

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

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

No additional information available

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

Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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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

For containment	Collect spillage.
Methods for cleaning up	Take up liquid spill into absorbent material.
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. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing vapours.
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.

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

Storage conditions	Store in a well-ventilated place. Keep cool.
Storage temperature	5 - 25 °C

## 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

Hand protection	Protective gloves.
Eye protection	Safety glasses.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	Avoid release to the environment.

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

### SECTION 9: Physical and chemical properties

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

Physical state	Liquid
Colour	amber.
Odour	odourless.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	> 200 °F
Flash point	> 150 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.13 g/cm <sup>3</sup>
Solubility	insoluble in water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Reacts with oxidising compounds. Reacts with (some) acids/bases.
Conditions to avoid	None under recommended storage and handling conditions (see section 7).
Hazardous decomposition products	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)	Not classified
Acute toxicity (dermal)	Dermal: Harmful in contact with skin.
Acute toxicity (inhalation)	Not classified

ATE CA (dermal)	1100 mg/kg bodyweight
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## Safety Data Sheet

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<b>Bisphenol-A-Epichlorhydrin Epoxy resin Average MW &lt; 700 (25068-38-6)</b>	
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 severe skin burns and eye damage.
Serious eye damage/irritation	Serious eye damage, category 1, implicit
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
Symptoms/effects after skin contact	Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	Eye irritation.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general Toxic to aquatic life with long lasting effects.

<b>Bisphenol-A-Epichlorhydrin Epoxy resin Average MW &lt; 700 (25068-38-6)</b>	
LC50 fish 1	1.2 mg/l (96 h; Oncorhynchus mykiss; Lethal)
EC50 Daphnia 1	1.7 mg/l
LC50 fish 2	2.3 mg/l (96 h; Oncorhynchus mykiss; Nominal concentration)
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

No additional information available

### 12.3. Bioaccumulative potential

<b>Bisphenol-A-Epichlorhydrin Epoxy resin Average MW &lt; 700 (25068-38-6)</b>	
BCF other aquatic organisms 1	3 - 31
Log Pow	>= 2.918 (Experimental value; EU Method A.8: Partition Coefficient; 25 °C)
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

### 12.4. Mobility in soil

<b>Bisphenol-A-Epichlorhydrin Epoxy resin Average MW &lt; 700 (25068-38-6)</b>	
Surface tension	0.0 587-0.0589,20 °C

### 12.5. Other adverse effects

GWPmix comment No known effects from this product.

## 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.  
 Ecology - waste materials Avoid release to the environment.



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## Safety Data Sheet

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

### SECTION 14: Transport information

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

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

- 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 73/78 and the IBC Code

### SECTION 15: Regulatory information

#### 15.1. National regulations

**Bisphenol-A-Epichlorhydrin Epoxy resin Average MW < 700 (25068-38-6)**

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2. International regulations

**Bisphenol-A-Epichlorhydrin Epoxy resin Average MW < 700 (25068-38-6)**

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

### SECTION 16: Other information

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## Safety Data Sheet

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

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SDS Major/Minor	None
Date of issue	01-09-2018
Revision date	01-09-2018
Supersedes	04-18-2016

Full text of H-statements:

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.
H319	Causes serious eye irritation.

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*

# RM 710, B

## Safety Data Sheet

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

Date of issue: 01/09/2018

Revision date: 01/09/2018

Supersedes: 04/18/2016

Version: 2.1

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

#### 1.1. Product identifier

Product form	Mixture
Product name	RM 710, B
Product code	BU Fire Protection

#### 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

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

##### 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

#### 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: Hazards identification

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

##### Classification (GHS-CA)

Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Skin Corr. 1B	H314
Skin Sens. 1	H317
Repr. 2	H361
STOT SE 3	H335

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-CA labelling

Hazard pictograms (GHS-CA)



GHS05

GHS07

GHS08

Signal word (GHS-CA)

Danger

Hazard statements (GHS-CA)

H302+H312 - Harmful if swallowed or in contact with skin  
H314 - Causes severe skin burns and eye damage.  
H317 - May cause an allergic skin reaction.

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## Safety Data Sheet

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Precautionary statements (GHS-CA)

H335 - May cause respiratory irritation.  
H361 - Suspected of damaging fertility or the unborn child.

P260 - Do not breathe vapours.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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.

### 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)
diethylenetriamine		(CAS-No.) 111-40-0	30-70	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation:vapour), H330 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
4,4'-isopropylidenediphenol (Bisphenol-A)		(CAS-No.) 80-05-7	30-50	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361 STOT SE 3, H335

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. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact	Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	Serious damage to eyes.
Symptoms/effects after ingestion	Burns.

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

Other medical advice or treatment	Treat symptomatically.
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# RM 710, B

## 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. Dry powder. Foam. Carbon dioxide.

#### 5.2. Unsuitable extinguishing media

No additional information available

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

No additional information available

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

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### 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

For containment Collect spillage.  
Methods for cleaning up Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.  
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 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe vapours.  
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.

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

Storage conditions Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
Storage temperature 5 - 25 °C

### 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

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## Safety Data Sheet

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

Hand protection	Protective gloves.
Eye protection	Safety glasses.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	[In case of inadequate ventilation] wear respiratory protection.
Environmental exposure controls	Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

Physical state	Liquid
Colour	Blue.
Odour	Amine-like.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	155 - 401 °F
Flash point	> 100 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.01 g/cm <sup>3</sup>
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Reacts with (some) acids/bases. Reacts with oxidising compounds.
Conditions to avoid	None under recommended storage and handling conditions (see section 7).
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

# RM 710, B

## Safety Data Sheet

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

### 11.1. Information on toxicological effects

Acute toxicity (oral)	Oral: Harmful if swallowed.
Acute toxicity (dermal)	Dermal: Harmful in contact with skin.
Acute toxicity (inhalation)	Not classified

ATE CA (oral)	714.2857142857 mg/kg bodyweight
ATE CA (dermal)	1571.4285714286 mg/kg bodyweight

<b>diethylenetriamine (111-40-0)</b>	
LD50 oral rat	1080 mg/kg (Rat)
LD50 dermal rabbit	1090 mg/kg (Rabbit)

<b>4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)</b>	
LD50 oral rat	3300 mg/kg (Rat)
LD50 dermal rabbit	3600 mg/kg (Rabbit)

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Serious eye damage, category 1, implicit
Respiratory or skin sensitization	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Suspected of damaging fertility or the unborn child.
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Symptoms/effects after skin contact	Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	Serious damage to eyes.
Symptoms/effects after ingestion	Burns.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

<b>diethylenetriamine (111-40-0)</b>	
LC50 fish 1	430 mg/l (LC50; 96 h)
EC50 Daphnia 1	17 - 64 mg/l (EC50; 48 h)
EC50 other aquatic organisms 1	1164 mg/l (72 h; Selenastrum capricornutum)

<b>4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)</b>	
LC50 fish 1	9.9 mg/l (96 h; Brachydanio rerio; GLP)
EC50 Daphnia 1	3.9 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	4.6 - 4.7 mg/l (96 h; Pimephales promelas; GLP)
EC50 Daphnia 2	10 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	2.7 - 3.1,96 h; Selenastrum capricornutum; GLP

### 12.2. Persistence and degradability

<b>diethylenetriamine (111-40-0)</b>	
Persistence and degradability	Inherently biodegradable. Not readily biodegradable in water. Photodegradation in the air.
<b>4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)</b>	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Non degradable in the soil. Adsorbs into the soil. Photolysis in the air. Photodegradation in the air.
Chemical oxygen demand (COD)	<b>0.036 g O<sub>2</sub>/g substance</b>
ThOD	<b>2.5 g O<sub>2</sub>/g substance</b>

### 12.3. Bioaccumulative potential

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## Safety Data Sheet

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

diethylenetriamine (111-40-0)	
BCF fish 1	< 6.3 (BCF)
Log Pow	-1.3
Bioaccumulative potential	Bioaccumulation: not applicable.
4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)	
BCF fish 1	5.1 - 67.7 (Cyprinus carpio; Test duration: 6 weeks)
Log Pow	3.32 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

diethylenetriamine (111-40-0)	
Surface tension	0.044 N/m (25 °C)

### 12.5. Other adverse effects

GWPmix comment No known effects from this product.

## 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. Avoid release to the environment.

## SECTION 14: Transport information

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

ADR	IMDG	IATA	RID
<b>14.1. UN number</b>			
2735	2735	2735	2735
<b>14.2. UN proper shipping name</b>			
AMINES, LIQUID, CORROSIVE, N.O.S.	AMINES, LIQUID, CORROSIVE, N.O.S.	Amines, liquid, corrosive, n.o.s.	AMINES, LIQUID, CORROSIVE, N.O.S.
<b>Transport document description</b>			
UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, II, (E), ENVIRONMENTALLY HAZARDOUS	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S., 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS		
<b>14.3. Transport hazard class(es)</b>			
8	8	8	8
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
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			



# RM 710, B

## Safety Data Sheet

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

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR)	C7
Special provisions (ADR)	274
Limited quantities (ADR)	1I
Packing instructions (ADR)	P001, IBC02
Mixed packing provisions (ADR)	MP15
Orange plates	

Tunnel restriction code (ADR)

E

#### - Transport by sea

Special provisions (IMDG)	274
Limited quantities (IMDG)	1 L
Packing instructions (IMDG)	P001
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-B
Stowage category (IMDG)	A
Stowage and segregation (IMDG)	Separated from acids.
MFAG-No	153

#### - Air transport

PCA packing instructions (IATA)	851
PCA max net quantity (IATA)	1L
CAO packing instructions (IATA)	855
Special provisions (IATA)	A3

#### - Rail transport

Special provisions (RID)	274
Limited quantities (RID)	1L
Packing instructions (RID)	P001, IBC02
Carriage prohibited (RID)	No

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## SECTION 15: Regulatory information

### 15.1. National regulations

**diethylenetriamine (111-40-0)**

Listed on the Canadian DSL (Domestic Substances List)

**4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)**

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. International regulations

**diethylenetriamine (111-40-0)**

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

# RM 710, B

## Safety Data Sheet

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

**4,4'-isopropylidenediphenol (Bisphenol-A) (80-05-7)**

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

**SECTION 16: Other information**

SDS Major/Minor	None
Date of issue	01-09-2018
Revision date	01-09-2018
Supersedes	04-18-2016

Full text of H-statements:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.

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*

# RM 710, C

## Safety Data Sheet

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

Date of issue: 01/09/2018

Revision date: 01/09/2018

Supersedes: 04/18/2016

Version: 2.1

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

#### 1.1. Product identifier

Product form	Mixture
Product name	RM 710, C
EC-No.	238-878-4
Product code	BU Fire Protection

#### 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

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

#### 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

#### 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: Hazards identification

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

##### Classification (GHS-CA)

Eye Irrit. 2B	H320
Carc. 1A	H350
STOT RE 1	H372

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-CA labelling

Hazard pictograms (GHS-CA)



GHS08

Signal word (GHS-CA)

Danger

Hazard statements (GHS-CA)

H320 - Causes eye irritation  
H350 - May cause cancer.  
H372 - Causes damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS-CA)

P260 - Do not breathe dust.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

# RM 710, C

## Safety Data Sheet

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

contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.

### 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)
Quartz		(CAS-No.) 14808-60-7	>= 80	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 after inhalation	Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	Wash skin with plenty of water.
First-aid measures after eye contact	Rinse eyes with water as a precaution.
First-aid measures after ingestion	Call a poison center or a doctor if you feel unwell.

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

No additional information available

### 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.
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### 5.2. Unsuitable extinguishing media

No additional information available

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

No additional information available

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

Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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## Safety Data Sheet

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

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

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

Storage conditions	Store in a well-ventilated place. Keep cool.
Storage temperature	5 - 25 °C

### 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

Hand protection	protective gloves.
Eye protection	Safety glasses.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental exposure controls	Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

Physical state	Solid
Appearance	Powder.
Colour	white.
Odour	No data available
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available

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## Safety Data Sheet

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

Freezing point	Not applicable
Boiling point	No data available
Flash point	Not applicable
Auto-ignition temperature	Not applicable
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	Not applicable
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	Not applicable
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to avoid	None under recommended storage and handling conditions (see section 7).
Hazardous decomposition products	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)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	May cause cancer.
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified

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## Safety Data Sheet

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

GWPmix comment

No known effects from this product.

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

### SECTION 14: Transport information

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

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

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## Safety Data Sheet

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

**- 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 73/78 and the IBC Code****SECTION 15: Regulatory information****15.1. National regulations****Quartz (14808-60-7)**

Listed on the Canadian DSL (Domestic Substances List)

**15.2. International regulations****Quartz (14808-60-7)**

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

**SECTION 16: Other information**

SDS Major/Minor	None
Date of issue	01-09-2018
Revision date	01-09-2018
Supersedes	04-18-2016

Full text of H-statements:

H320	Causes eye irritation
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

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*