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1 Identification

· Product identifier

- · Trade name: <u>RM 710 Comp A</u>
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- Application of the substance / the mixture Adhesive mortar for anchor and rebar fastenings

 \cdot Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Hilti (Canada) Corp. 2360 Meadowpine Boulevard Mississauga, Ontario L5N 6S2 Phone: (800) 363-4458 Fax: (800) 363-4459

• Information department: chemicals.hse@hilti.com

see section 16 Emergency telephone number: Tox Info Suisse - 24 h Service

Tel.: 0041 / 44 251 51 51 (international)

Chem-Trec Tel.: 1 800 424 9300

2 Hazard(s) identification

· Classification of the substance or mixture

Acute Tox. 4 H302 Harmful if swallowed

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



 \cdot Signal word Warning

· Hazard-determining components of labeling: Benzyl alcohol reaction product: bisphenol-A-epichlorhydrin epoxy resin (average MW = 700) oxirane, mono[(C12-14-alkyloxy)methyl] derivs · Hazard statements H302+H332 Harmful if swallowed or if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. P302+P352 IF INHALED: Call a POISON CENTER/doctor if you feel unwell. P304+P312 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. · Hazard description: · WHMIS classification D2B - Toxic material causing other toxic effects · Other hazards · Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)

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3 Com	nosition/inf	formation or	n ingredien	te
5 Com	JUSICIOII/III	of mation of	i ingi culen	10

Chei	nica	characterization:	Mixtures

· Description: .

r		
· Dangerous components:		
25068-38-6	reaction product: bisphenol-A-epichlorhydrin epoxy resin	30-60%
	(average MW = 700)	
100-51-6	Benzyl alcohol	10-30%
68609-97-2	oxirane, mono[(C12-14-alkyloxy)methyl] derivs	5-10%
· Additional i	nformation For the wording of the listed risk phrases refer to section 16.	

4 First-aid measures

- · Description of first aid measures
- · General information Immediately remove any clothing soiled by the product.
- After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact
- If skin irritation continues, consult a doctor.
- Immediately rinse with water. • After eve contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing Seek immediate medical advice.
- Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
- · Protective equipment:
- Wear self-contained respiratory protective device.
- Wear fully protective suit.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Ensure adequate ventilation.
- Reference to other sections
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling
- · Precautions for safe handling
- Use only in well ventilated areas.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- \cdot Information about protection against explosions and fires: No special measures required.
- \cdot Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: keep containers securely closed and dry, store at 5 25 °C / 41-77 °F
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Storage class 12
- Specific end use(s) No further relevant information available.

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Upper:

· Density:

· Vapor pressure:

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Control parameters	
	require monitoring at the workplace: vant quantities of materials with critical values that have to be monitored at the workplace.
	at were valid during the creation were used as basis.
	a were tand during the ereation were used as ousis.
Exposure controls Personal protective equipment	
General protective and hygienic me	easures
Keep away from foodstuffs, beverages	s and feed.
Wash hands before breaks and at the e	end of work.
Avoid contact with the eyes and skin. Breathing equipment:	
Not necessary if room is well-ventilate	ed.
Filter AX.	
Protection of hands:	
EN 374	
μη	
Protective gloves.	
	able and resistant to the product/ the substance/ the preparation.
	on to the glove material can be given for the product/ the preparation/ the chemical mixture.
Material of gloves Nitrile rubber, NI	sideration of the penetration times, rates of diffusion and the degradation
Penetration time of glove material	JK
The exact break through time has to b	e found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: EN 166 + EN 170	
EN 100 + EN 170	
Tightly sealed goggles.	
Body protection:	
Protective work clothin	ıg.
	-
Physical and chemical prop	verties
Physical and chemical prop	verties
Physical and chemical prop Information on basic physical and General Information	verties
Physical and chemical prop Information on basic physical and of General Information Appearance:	erties chemical properties
Physical and chemical prop Information on basic physical and General Information	verties
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor:	erties chemical properties Fluid Amber colored Odorless
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color:	erties chemical properties Fluid Amber colored Odorless Not determined.
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor:	erties chemical properties Fluid Amber colored Odorless
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor: Odour threshold: pH-value: Change in condition	erties chemical properties Fluid Amber colored Odorless Not determined. Not determined.
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Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor: Odor: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	erties chemical properties Fluid Amber colored Odorless Not determined. Not determined. Not determined.
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Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor: Odor: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point:	erties chemical properties Fluid Amber colored Odorless Not determined. Not determined. Not determined. >200 ° F Not applicable
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor: Odor: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous)	erties chemical properties Fluid Amber colored Odorless Not determined. Not determined. Not determined. >200 ° F Not applicable
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flammability (solid, gaseous) Ignition temperature:	erties chemical properties Fluid Amber colored Odorless Not determined. Not determined. Not determined. Not determined. >200 ° F Not applicable Not applicable.
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor: Odor: Odor: Odor: PH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	erties chemical properties Fluid Amber colored Odorless Not determined. Not determined. >200 ° F Not applicable Not applicable Not applicable. Not determined.
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Flash point: Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion: Explosion limits:	ertics chemical properties Fluid Amber colored Odorless Not determined. Not determined. Not determined. Not determined. Not applicable Not applicable Not applicable. Not determined. Product is not selfigniting. Product does not present an explosion hazard.
Physical and chemical prop Information on basic physical and of General Information Appearance: Form: Color: Odor: Odour threshold: pH-value: Change in condition Melting point/Melting range: Boiling point/Melting range: Flash point: Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: Danger of explosion:	erties chemical properties Fluid Amber colored Odorless Not determined. Not determined. Not determined. >200 ° F Not applicable Not applicable Not applicable. Not determined. Product is not selfigniting.

Not determined.

Not determined

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acc. to ISO 11014 Version number 1

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		(Contd. of page 3)
· Relative density	Not determined.	
· Vapour density	Not determined.	
 Evaporation rate 	Not determined.	
 Solubility in / Miscibility with 		
Water:	Not miscible or difficult to mix	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0~%	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents

- Reacts with strong alkali
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

25068-38-6 reaction product: bisphenol-A-epichlorhydrin epoxy resin

(average MW = 700)

LD50 11400 mg/kg (rat) Oral

Dermal LD50 22800 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
· NTP (National Toxicology Program)	
None of the ingredients is listed	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

· Aquatic toxicity:	
25068-38-6 reaction product: bisphenol-A-epichlorhydrin epoxy resin (average MW = 700)	
EC50/48h 9.4 mg/l (Algae)	
1.7 mg/l (magna daphnia)	
EC50/96h 1.2 mg/l (fish)	
Persistence and degradability No further relevant information available. Behavior in environmental systems: Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.	
• From Son No further relevant miormation available.	
Remark: Toxic for fish	
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· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Toxic for aquatic organisms • Results of PBT and vPvB assessment

· **PBT:** Not applicable. · vPvB: Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

For disposal, local regulations issued by the authorities must be observed.

Hand over to hazardous waste disposers.

· Uncleaned packagings:

· Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

· UN-Number · DOT, TDG, ADN, IATA · IMDG	Void UN3082
· UN proper shipping name · DOT, TDG, ADN, IATA · IMDG	Void ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI N.O.S. (reaction product: bisphenol-A-epichlorhydrin epoxy resin (average MW = 700)), MARINE POLLUTANT
· Transport hazard class(es)	
DOT, TDG, ADN Class	Void
·IMDG	
	0 Miccollongous dengarous substances and articles
· Class · Label	9 Miscellaneous dangerous substances and articles 9
IATA	
	Void
Packing group	
· DOT, TDG, IATA	Void
· IMDG	III
· Environmental hazards:	Product contains environmentally hazardous substances: reacti product: bisphenol-A-epichlorhydrin epoxy resin (average MW = 700)
· Marine pollutant:	Yes Symbol (fish and tree)
· Special precautions for user · Danger code (Kemler): · EMS Number:	Not applicable. 90 F-A.S-F
· DIVING INDUCIO	· · · · · · · · · · · · · · · · · · ·
	(UL/3//0 and
	Not applicable.
· Transport in bulk according to Annex II of MAR	



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- ·IMDG
- Limited quantities (LQ) • Excepted quantities (EQ)

5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara
- Section 313 (Specific toxic chemical listings):
- None of the ingredients are listed.
- · TSCA (Toxic Substances Control Act):
- All ingredients are listed. • Proposition 65:
- Chemicals known to cause cancer:
- None of the ingredients are listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency)
- None of the ingredients is listed
- · TLV (Threshold Limit Value established by ACGIH)
- None of the ingredients is listed.
- · MAK (German Maximum Workplace Concentration)
- None of the ingredients is listed.
- \cdot NIOSH-Ca (National Institute for Occupational Safety and Health)
- None of the ingredients is listed.
- · National regulations
- · Information about limitation of use: Employment restrictions concerning young persons must be observed.
- · Chemical safety assessment: not required.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Hilti Corporation Business Unit Chemicals Quality/Safety/Environment FL-9494 Schaan / Liechtenstein

chemicals.hse@hilti.com Tel.: +423 234 3004 FAX.: +423 234 3004 FAX.: +423 234 3462 • Date of preparation / last revision 08/18/2015 / -• Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent DS0: Lethal dose, 50 percent DS1: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitistation - Skin, Hazard Category 1 • * Data compared to the previous version altered.

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1 Identification

· Product identifier

- · Trade name: <u>RM 710 Comp B</u>
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- \cdot Details of the supplier of the safety data sheet · Manufacturer/Supplier: Hilti (Canada) Corp. 2360 Meadowpine Boulevard Mississauga, Ontario L5N 6S2 Phone: (800) 363-4458 Fax: (800) 363-4459

· Information department: chemicals.hse@hilti.com

- see section 16 Emergency telephone number: Tox Info Suisse - 24 h Service Tel.: 0041 / 44 251 51 51 (international)
- Chem-Trec Tel.: 1 800 424 9300

2 Hazard(s) identification

· Classification of the substance or mixture

- Flam. Liq. 4 H227 Combustible liquid.
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Corr. 1A H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Muta. 2 H341 Suspected of causing genetic defects.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

· Label elements

- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



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· Hazard description: · WHMIS classification B3 - Combustible liquid

D1B - Toxic material causing immediate and serious toxic effects

 Signal word Data 	anger
Formaldehyde, m-Xylylenedian	nining components of labeling: oligomeric reaction products with phenol and m-phenylenebis(methylamine) nine
phenol • Hazard statem	anta.
H227 Combusti	
H332 Harmful	1
	vere skin burns and eve damage.
	e an allergic skin reaction.
•	l of causing genetic defects.
H373 May caus	se damage to organs through prolonged or repeated exposure.
· Precautionary	statements
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
P314	Get medical advice/attention if you feel unwell.

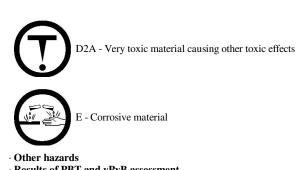
(Contd. on page 2)



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Trade name: RM 710 Comp B



- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

· Dangerous components:

0	· · · · · · · · · · · · · · · · · · ·	
57214-10-5	Formaldehyde, oligomeric reaction products with phenol and m-phenylenebis(methylamine)	30-60%
1477-55-0	m-Xylylenediamine	10-30%
108-95-2	phenol	10-30%

· Additional information For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- · Description of first aid measures
- · After inhalation Seek medical treatment in case of complaints.
- \cdot After skin contact Immediately wash with water and soap and rinse thoroughly.
- After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

- Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- **Protective equipment:**
- Wear self-contained respiratory protective device.
- Wear fully protective suit. Mount respiratory protective device.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures
- Use respiratory protective device against the effects of fumes/dust/aerosol.
- Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
- · Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

- Ensure adequate ventilation · Reference to other sections
- See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

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7 Handling and storage

· Handling

- · Precautions for safe handling
- Use only in well ventilated areas. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: No special measures required.
- \cdot Conditions for safe storage, including any incompatibilities
- Storage Requirements to be met by storerooms and receptacles: keep containers securely closed and dry, store at 5 25 °C / 41-77 °F Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Store receptacle in a well ventilated area. Keep receptacle tightly sealed.

· Storage class 8 A

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection	
· Control parameters	
· Components with limit values that require monitoring at the workplace:	
1477-55-0 m-Xylylenediamine	
EL Ceiling limit value: 0.1 mg/m ³ Skin	
EV Ceiling limit value: 0.1 mg/m ³ Skin	
108-95-2 phenol	
EL Long-term value: 5 ppm Skin	
EV Long-term value: 19 mg/m ³ , 5 ppm Skin	
• Additional information: The lists that were valid during the creation were used as basis.	
 Personal protective equipment General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Breathing equipment: Not necessary if room is well-ventilated. Filter AX. Protection of hands: EN 374 The cloue meterial has to be immergraphic and resistant to the product/ the substance/ the propagation.	
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves Nitrile rubber, NBR Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Tightly sealed goggles. 	
EN 166 + EN 170	(Contd. on page 4)



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Trade name: RM 710 Comp B

· Body protection:



Protective work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties		
· General Information		
· Appearance:		
Form:	Liquid	
Color:	Blue	
· Odor:	Amine-like	
· Odour threshold:	Not determined.	
· pH-value:	Alkaline	
· Change in condition		
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	155-401 ° F	
· Flash point:	Not applicable	
· Flammability (solid, gaseous)	Not applicable.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	Not determined.	
· Density:	Not determined	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water): Not determined.		
· Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
	rvot uctermineu.	
· Solvent content:		
Organic solvents:	0.0 %	
· Other information	No further relevant information available.	

10 Stability and reactivity

 \cdot **Reactivity** No further relevant information available.

· Chemical stability

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions

Reacts with strong acids and oxidizing agents

Reacts with strong alkali

- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide

Aldehyde

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· Primary irritant effect:

 \cdot on the skin: Caustic effect on skin and mucous membranes.

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· on the eye: Strong caustic effect.

· Sensitization: Sensitization possible through skin contact.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Corrosive Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
108-95-2 phenol		
· NTP (National Toxicology Program)		
None of the ingredients is listed		

None of the ingredients is listed

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Toxic for aquatic organisms
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

 \cdot Waste treatment methods

- · Recommendation
- For disposal, local regulations issued by the authorities must be observed.
- Hand over to hazardous waste disposers.

· Uncleaned packagings:

[•] Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

UN-Number		
DOT, IMDG	UN1760	
TDG, IATA	Void	
UN proper shipping name		
DOT	Corrosive liquids, n.o.s. (Phenol, m-Xylylenediamine)	
IMDG	CORROSIVE LIQUID, N.O.S.	
Transport hazard class(es)	-	
DOT		
Class	9 Miscellaneous dangerous substances and articles	



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Trade name: RM 710 Comp B

		(Contd. of page 5)
· Label	9	(**************************************
· IMDG		
· Class	9 Miscellaneous dangerous substances and articles	
· Label	9	
· Packing group	-	
· Environmental hazards:		
· Marine pollutant:	No	
	Symbol (fish and tree)	
· Special precautions for user	Not applicable.	
· EMS Number:	F-A,S-B	
· Transport in bulk according to Annex II of MARP		
the IBC Code	Not applicable.	

15 Regulatory information

Section 313 (Specific toxic chemical listings):	
108-95-2 phenol	
TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
Proposition 65:	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
108-95-2 phenol	D
TLV (Threshold Limit Value established by ACGIH)	
108-95-2 phenol	A
MAK (German Maximum Workplace Concentration)	
108-95-2 phenol	3
NIOSH-Ca (National Institute for Occupational Safety and Health)	•

National regulations

· Information about limitation of use: Employment restrictions concerning young persons must be observed.

· Chemical safety assessment: not required.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Hilti Corporation Business Unit Chemicals Quality/Safety/Environment FL-9494 Schaan / Liechtenstein

chemicals.hse@hilti.com Tel.: +423 234 3004 FAX.: +423 234 3462 • Date of preparation / last revision 08/18/2015 / -• Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGHI: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) WHMIS: Workplace Hazardous Materials Information System (Canada) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

(Contd. on page 7)



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Trade name: RM 710 Comp B

Flam. Liq. 4: Flammable liquids, Hazard Category 4 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Muta. 2: Germ cell mutagenicity, Hazard Category 2 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 • *** Data compared to the previous version altered.** (Contd. of page 6)

CA



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1 Identification

· Product identifier

- · Trade name: <u>RM 710 Comp C</u>
- · CAS Number:
- 14808-60-7
- · EC number:
- 238-878-4
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Adhesive mortar for anchor and rebar fastenings
- \cdot Details of the supplier of the safety data sheet · Manufacturer/Supplier: Hilti (Canada) Corp. 2360 Meadowpine Boulevard Mississauga, Ontario L5N 6S2
- Phone: (800) 363-4458 Fax: (800) 363-4459
- Information department: chemicals.hse@hilti.com
- see section 16

· Emergency telephone number: Tox Info Suisse - 24 h Service Tel.: 0041 / 44 251 51 51 (international)

Chem-Trec Tel.: 1 800 424 9300 Hilti (Canada) Corp. Phone: (800) 363-4458 Fax: (800) 363-4459

2 Hazard(s) identification

· Classification of the substance or mixture

Carc. 1A H350 May cause cancer.

- STOT SE 3 H335 May cause respiratory irritation.
- STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

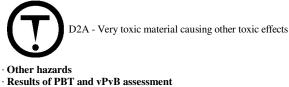
· Label elements

· GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).



· Signal word Danger

- · Hazard statements
- H350 May cause cancer.
- H335 May cause respiratory irritation.
- H372 Causes damage to organs through prolonged or repeated exposure.
- · Precautionary statements
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust.
- Wear protective gloves/protective clothing/eye protection/face protection. P280
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- · Hazard description:
- · WHMIS classification



- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)

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Trade name: RM 710 Comp C

(Contd. of page 1)

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description:
- 14808-60-7 Quartz (SiO2)
- Identification number(s):
- EC number: 238-878-4

4 First-aid measures

- · Description of first aid measures
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After skin contact
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing Seek medical treatment.
- \cdot Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- Reference to other sections
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

· Handling

- · Precautions for safe handling
- Keep receptacles tightly sealed.
- Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Prevent formation of dust.
- · Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: keep containers securely closed and dry, store at 10 25 °C / 50-77 °F
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- Storage class 6.1 D
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Control parameters

- \cdot Components with limit values that require monitoring at the workplace:
- 14808-60-7 Quartz (SiO2)
- EL Long-term value: 0.025 mg/m3
- ACGIH A2; IARC 1

EV Long-term value: 0.10* mg/m³ *respirable fraction

Additional information: The lists that were valid during the creation were used as basis.



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(Contd. of page 2)

- Exposure controls Personal protective equipment
- · General protective and hygienic measures Do not inhale dust / smoke / mist.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Breathing equipment:
- Suitable respiratory protective device recommended. Short term filter device: Filter AX.
- · Protection of hands:



EN 374

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- · Material of gloves Nitrile rubber, NBR





Tightly sealed goggles.

EN 166 + EN 170 · Body protection:



Protective work clothing.

Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Powder	
Color:	Cream colored	
Odor:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	undetermined	
Flash point:	Not applicable	
Flammability (solid, gaseous)	Product is not flammable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not applicable.	
Density:	Not determined	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
Partition coefficient (n-octanol/wat	er): Not determined.	

1



Safety Data Sheet acc. to ISO 11014

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Trade name: RM 710 Comp C

(Contd. of page 3)

· Viscosity:

- dynamic:
- kinematic: Organic solvents:
- Other information

Not applicable. Not applicable. 0.0 % No further relevant information available.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- \cdot Possibility of hazardous reactions No dangerous reactions known
- Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- \cdot Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: Moderate eye irritation
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

14808-60-7 Quarz

· NTP (National Toxicology Program)

- 14808-60-7 Quarz
- · OSHA-Ca (Occupational Safety & Health Administration)
- Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation For disposal, local regulations issued by the authorities must be observed.

· Uncleaned packagings:

• Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

UN-Number		
DOT, TDG, ADN, IMDG, IATA	Void	
UN proper shipping name DOT, TDG, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, TDG, ADN, IMDG, IATA		
Class	Void	



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Trade name: RM 710 Comp C

	(Contd. of page 4)
· Packing group · DOT, TDG, IMDG, IATA	Void
• Environmental hazards: • Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II of MARPOL73/78 at the IBC Code	d Not applicable.
· UN "Model Regulation":	Void

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara Section 313 (Specific toxic chemical listings): Substance is not listed. · TSCA (Toxic Substances Control Act): Substance is listed. · Proposition 65: · Chemicals known to cause cancer: 14808-60-7 Quarz Cancerogenity categories · EPA (Environmental Protection Agency) Substance is not listed. · TLV (Threshold Limit Value established by ACGIH) 14808-60-7 Quarz · MAK (German Maximum Workplace Concentration) 14808-60-7 Quarz NIOSH-Ca (National Institute for Occupational Safety and Health) 14808-60-7 Quarz

· National regulations

• Information about limitation of use: Employment restrictions concerning young persons must be observed.

· Chemical safety assessment: not required.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• Department issuing MSDS:

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