

Printing date 14.06.2013 Version number 2 Revision: 14.06.2013

1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: CM 510-1 (A&B)
- · Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use Building and construction work
- · Application of the substance / the preparation Construction chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Hilti (Hong Kong) Limited

701-704, 7F, Tower A,

Manulife Financial Centre

223 Wai Yip Street, Kwun Tong

Kowloon, Hong Kong

Phone: +852 8228 8118 (Hong Kong)

00800 8228 8118 (Macau) Fax: +852 2954 1751 E-mail: hksales@hilti.com

- · Informing department: see section 16
- Emergency telephone number:

Schweizerisches Toxikologisches Informationszentrum - 24 h Service

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

Hilti (Hong Kong) Limited

Phone: +852 8228 8118 (Hong Kong)

00800 8228 8118 (Macau) Fax: +852 2954 1751

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC



C; Corrosive

R34: Causes burns.



Xn; Harmful

R20/21/22-62-68: Harmful by inhalation, in contact with skin and if swallowed. Possible risk of impaired fertility. Possible risk of

irreversible effects.



Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

- · Label elements
- $\cdot \ Labelling \ according \ to \ EU \ guidelines:$

 $The \ product \ has \ been \ classified \ and \ labelled \ in \ accordance \ with \ EC \ Directives \ / \ Ordinance \ on \ Hazardous \ Materials \ (GefStoffV)$

 $\cdot \ Code \ letter \ and \ hazard \ designation \ of \ product:$



C Corrosive

· Hazard-determining components of labelling:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

trimethylhexane-1,6-diamine

bisphenol A

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin

(number average molecular weight = 700)

2,3-epoxypropyl o-tolyl ether

Benzyl alcohol

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· Risk phrases:

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

34 Causes burns.

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Possible risk of impaired fertility.Possible risk of irreversible effects.

· Safety phrases:

Avoid contact with eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

· Special labelling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

Restricted to professional users.

- · Other hazards
- · Results of PBT and vPvB assessment
- \cdot PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture consisting of the following components.

Dangerous compon		
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine ☐ C R34; Xn R21/22; Xi R43 R52/53	25-509
	♦ Skin Corr. 1B, H314; ↑ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
CAS: 100-51-6	Benzyl alcohol	25-509
EINECS: 202-859-9		
CAS: 25620-58-0	♦ Acute Tox. 4, H302; Acute Tox. 4, H332 trimethylhexane-1,6-diamine	10-259
	C R34;	10-237
211,200.217 1010	Skin Corr. 1B, H314; (1) Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 80-05-7	bisphenol A	2,5-109
EINECS: 201-245-8	Xn R62; Xi R37-41; Xi R43	
	R52	
	Repr. Cat. 3 ♣ Repr. 2, H361f; ♦ Eye Dam. 1, H318; ♦ Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	2,5-10
NLP: 500-033-5	(number average molecular weight = 700)	2,3 10
	Xi R36/38; Xi R43; № N R51/53	
	Aquatic Chronic 2, H411; 🗘 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 2210-79-9	2,3-epoxypropyl o-tolyl ether	<2,5%
EINECS: 218-645-3	Xn R68; X Xi R38; X Xi R43; N R51/53 Muta. Cat. 3	
	♦ Muta. 2, H341; ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317	
Dangerous compon	· · · · · · · · · · · · · · · · · · ·	
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin	
NLP: 500-033-5	(number average molecular weight = 700)	
	Xi R36/38; Xi R43; N R51/53	
CAS: 2210-79-9	♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 2.3-epoxypropyl o-tolyl ether	
	Z,3-epoxypropyr 0-toryr enter Xn R68; Xi R38; Xi R43; N R51/53	
	Muta. Cat. 3	
	♦ Muta. 2, H341; ♦ Aquatic Chronic 2, H411; ♦ Skin Irrit. 2, H315; Skin Sens. 1, H317	
Dangerous compon	ents B:	
CAS: 100-51-6	Benzyl alcohol	
EINECS: 202-859-9		
G. G	Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine C R34; Xn R21/22; Xi R43	
EINECS: 220-000-8	R52/53	
	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chro	nic 3, H412
		ntd. on page



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CAS: 25620-58-0
EINECS: 247-134-8

CAS: 80-05-7
EINECS: 201-245-8

Xn R22; Xi R37-41; Xi R43

Skin Corr. 1B, H314; ↑ Acute Tox. 4, H302; Skin Sens. 1, H317

CAS: 80-05-7
EINECS: 201-245-8

Xn R62; Xi R37-41; Xi R43

R52

Repr. Cat. 3

Repr. 2, H361f; ♦ Eye Dam. 1, H318; ↑ Skin Sens. 1, H317; STOT SE 3, H335

• 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

Take affected persons into the open air and position comfortably

Seek medical treatment in case of complaints.

- · After skin contact Instantly wash with water and soap and rinse thoroughly. If skin irritation persist, call a physician.
- · After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- · After swallowing Instantly call for doctor.
- $\cdot \ \, \textbf{Information for doctor}$
- · 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 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents Water spray, carbon dioxide (CO2), carbon dioxide blanket, foam, or dry powder.
- · Special hazards arising from the substance or mixture Formation of poisonous gases during heating or in fires.
- · Advice for firefighters
- · Protective equipment: In the event of fire, wear self contained breathing apparatus

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Keep away from ignition sources

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

- $\cdot \textbf{Environmental precautions:} \ Do \ not \ allow \ to \ enter \ drainage \ system, surface \ or \ ground \ water.$
- · Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Collect mechanically.

Dispose of contaminated material as waste according to item 13.

- · 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 information on disposal.

7 Handling and storage

- · Handling
- · Precautions for safe handling

Provide sufficient air exchange and/or exhaust in work rooms. When using, do not eat, drink or smoke. Ingestion, exposure to skin and eyes and inhalation of any general vapours should be avoided.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- ·Storage
- Requirements to be met by storerooms and containers: Keep in a cool, dry and dark place; 10 °C to 40 °C.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Store in a locked cabinet and out of the reach of children.
- · Storage class 8 A
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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- · Additional information: The lists that were valid during the compilation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

The usual precautionary measures should be adhered to general rules for handling chemicals.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Use breathing protection in case of insufficient ventilation.
- · Protection of hands:

Protective gloves

EN 374 + EN 388

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Not determined.

Not determined.

Not determined.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- · Material of gloves Synthetic gloves
- · Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eve protection:

Tightly sealed safety glasses.

EN 166 + EN 170

· Body protection: Protective work clothing.

9 Physical	and	chemical	propei	rties

 Information on basic physical and chemical properties 	· Information of	on basic physic	cal and chemica	l properties
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· General Information

· Appearance:

· pH-value:

Form: Fluid
Colour: Light yellow
Odour: Amine-like
Odour threshold: Not determined.

· Change in condition

Melting point/Melting range:
Boiling point/Boiling range:

> 60 °C

Flash point:

Not applicable

• Inflammability (solid, gaseous) Not applicable.

· Ignition temperature:

Self-inflammability: Product is not selfigniting.

• Danger of explosion: Product is not explosive.

Critical values for explosion: Lower:

Decomposition temperature:

Upper: Not determined.

Vapour pressure: Not determined.

Density Not determined.

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

 \cdot Solubility in / Miscibility with

Water: Partly miscible

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

dynamic: Not determined. **kinematic:** Not determined.

· Other information No further relevant information available

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: Stable until boiling point
- · Possibility of hazardous reactions

Reacts with strong acids and alkali

Reacts with strong oxidizing agents

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Safety data sheet according to 1907/2006/EC, Article 31

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· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Corrosive gases/vapours

11 Toxicological information

- Information on toxicological effects

· Acute t	· Acute toxicity:			
· LD/LC	· LD/LC50 values that are relevant for classification:			
2855-1	2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine			
Oral	LD50 1030 mg/kg (rango)			
100-51	100-51-6 Benzyl alcohol			
Oral	LD50 1230 mg/kg (rango)			
Dermal	LD50 2000 mg/kg (rbt)			
	25620-58-0 trimethylhexane-1,6-diamine			
Oral	LD50 900 mg/kg (rango)			

- · Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- on the eye: Strong caustic effect.
- · Sensitization: Sensitization possible by skin contact.
- Additional toxicological information:

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

Corrosive

Product is suspected to cause injury to foetus.

12 Ecological information

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

Do not allow product to reach ground water, water bodies or sewage system.

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

- · 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 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · European waste catalogue

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

- · Uncleaned packagings:
- · Recommendation:

Disposal must be made according to official regulations.

Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information

- · UN-Number
- · ADR, IMDG, IATA

(A) -

/ (B) 2735

· UN proper shipping name

· ADR, IMDG, IATA

AMINES, LIQUID, CORROSIVE, NOS (B) (trimetilhexanmetilendiamina; Isphorondiamine)

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			(Contd. of page
· Transport hazard class(es)			
· ADR, IMDG, IATA			
· Class	(A)	/ (B) 8	
· Label	(A)	/ (B) 8	
· Packing group · ADR, IMDG, IATA	(A)	/ (B) III	
· Environmental hazards:	()	, (=)	
· Environmental nazards: · Marine pollutant:	No		
· Special precautions for user	Not application	able.	
· EMS Number:	(A) -		
	(B) F-A, S	-B	
· Transport in bulk according to Annex II of M.	ARPOL73/78 and		
the IBC Code	Not applicable.		
· Transport/Additional information:			
· ADR			
· Limited quantities (LQ)	(A)	/ (B) 5L	
· Tunnel restriction code	(A)	/ (B) E	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Designation according to EC guidelines:
- · Hazard-determining components of labelling: Contains epoxy constituents. See information supplied by the manufacturer.
- $\cdot \ National \ regulations$
- $\cdot \textbf{Information about limitation of use:} \ Employment \ restrictions \ concerning \ young \ persons \ must \ be \ observed.$
- · Chemical safety assessment: not required.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- 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.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects.
- H361f Suspected of damaging fertility.
 H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- R20/22 Harmful by inhalation and if swallowed.
- R21/22 Harmful in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R36/38 Irritating to eyes and skin.
- R37 Irritating to respiratory system.
- R38 Irritating to skin.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52 Harmful to aquatic organisms.
- R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Possible risk of impaired fertility. R62
- Possible risk of irreversible effects.
- Department issuing data specification sheet:

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Safety data sheet according to 1907/2006/EC, Article 31

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 \cdot * Data compared to the previous version altered.

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