

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 405-1 (A&B)
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation Construction chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Hilti (New Zealand) Ltd. Unit 1/B 525 Great South Road P.O. Box 112-030, Penrose

Auckland 1061 New Zealand Phone: 0800 444 584 Fax: 0800 329 445 Email: servicenz@hilti.com

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

Schweizerisches Toxikologisches Informationszentrum - 24 h Service

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

Hilti (New Zealand) Ltd. Phone: 0800 444 584 Fax: 0800 329 445

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

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

Xi; Irritant

R36/38: Irritating to eyes and skin.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

N Dangerous for the environment

Hazard-determining components of labelling:

3,6,9,12-tetra-azatetradecamethylenediamine

Benzyl alcohol

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

(number average molecular weight = 700)

2,3-epoxypropyl o-tolyl ether

· 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.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

$\cdot \, \textbf{Safety phrases:} \,$

- Avoid contact with eyes.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Do not empty into drains.
- 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).
- Avoid release to the environment. Refer to special instructions/safety data sheets.

\cdot 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
- **PBT:** Not applicable. **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description:

Mixture consisting of the following components.

CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy	racin	10-25	
CAS: 25068-38-6 NLP: 500-033-5	(number average molecular weight = 700)	resiii	10-23	
	\(\text{number average molecular weight = 700}\) \(\text{Xi R36/38}; \times Xi R43; \times N R51/53\)			
	♦ H411; ♦ H315; H317			
CAS: 100-51-6	Benzyl alcohol		10-25	
EINECS: 202-859-9			10-23	
	↑ H302; H332			
CAS: 2855-13-2	3-aminomethyl-3,5,5-trimethylcyclohexylamine		10-25	
	© C R34; X Xn R21/22; X Xi R43		10 23	
Envees. 220 000 0	R52/53			
	♦ H314; ♦ H302; H312; H317; H412			
CAS: 2210-79-9	2,3-epoxypropyl o-tolyl ether		2,5-10	
EINECS: 218-645-3	Xn R68; Xi R38; Xi R43; № N R51/53			
	Muta. Cat. 3			
	♦ H341; ♦ H411; ♦ H315; H317			
CAS: 25620-58-0	trimethylhexane-1,6-diamine		2,5-10	
EINECS: 247-134-8	C R34; 🗙 Xn R22; 🗙 Xi R43			
	♦ H314; H318; ♦ H302; H317			
CAS: 80-05-7	bisphenol A		2-5%	
EINECS: 201-245-8	Xn R62; Xi R37-41; Xi R43			
	R52 — —			
	Repr. Cat. 3			
	♦ H361; ♦ H318; ♦ H317; H335			
Dangerous compon				
CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy	resin		
	(number average molecular weight = 700)			
	Xi R36/38; Xi R43; N R51/53			
G 1 G 2210 E0 0	♦ H411; ♦ H315; H319; H317			
CAS: 2210-79-9 EINECS: 218-645-3	2,3-epoxypropyl o-tolyl ether			
	Xn R68; Xi R38; Xi R43; № N R51/53 Muta. Cat. 3			
	Muta. Cat. 3 • H341; • H411; • H315; H317			
.				
Dangerous compon		TE V D20/22		
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol	Xn R20/22		
		(1) H302; H332		
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine	E C R34; X Xn R21/22; X Xi R43 R52/53		
		♦ H314; ♦ H302; H312; H317; H412		
CAS: 25620-58-0	trimethylhexane-1,6-diamine	C R34; X Xn R22; X Xi R43		
EINECS: 247-134-8		♦ H314; H318; ♦ H302; H317		
CAS: 80-05-7 EINECS: 201-245-8	bisphenol A	Xn R62; Xi R37-41; Xi R43		
		R52 Repr. Cat. 3		
		♦ H361; ♦ H318; ♦ H317; H335		
	1	I\♥ □301: ♥♥ □318: \₽ □317: □333		

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

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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 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 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.

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

Keep away from ignition sources

 $\cdot \textbf{Environmental precautions:} \ Do \ not \ allow \ to \ enter \ drainage \ system, \ surface \ or \ ground \ water.$

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

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

Take off immediately all contaminated clothing

Keep away from foodstuffs, beverages and food.

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

Avoid contact with the eyes and skin.

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 \cdot 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.

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 properties

- \cdot Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Colour: Light yellow
Odour: Amine-like

 \cdot pH-value at 20 $^{\circ}C$:

value at 20 °C:

 $\cdot \ Change \ in \ condition$

Melting point/Melting range: Not determined Boiling point/Boiling range: >200 °C

• Flash point: >100 °C

· Ignition temperature:

Decomposition temperature: Not determined.

Self-inflammability: Product is not selfigniting.
 Danger of explosion: Product is not explosive.

· Vapour pressure: Not determined.

Density Not determined

 \cdot Solubility in / Miscibility with

Water: Partly miscible

· Viscosity:

dynamic: 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

- \cdot 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 toxicity:

	Acute	raicity.				
I	· LD/LC50 values that are relevant for classification:					
I		100-51-6 Benzyl alcohol				
Ī	Oral	LD50 1230 mg/kg (rango)				
	Dermal	LD50 2000 mg/kg (rbt)				
Ī	2855-13	-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine				
Ī	Oral	LD50 1030 mg/kg (rango)				
I		5620-58-0 trimethylhexane-1,6-diamine				
Γ	Oral	LD50 900 mg/kg (rango)				

- 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 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
- \cdot 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: Toxic for fish
- · Additional ecological information:
- General notes:

Water danger class 3 (German Regulation) (Self-assessment): extremely hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

- · 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.
- · Uncleaned packagings:
- **Recommendation:**

Disposal must be made according to official regulations.

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

UN-Number	
ADR, IMDG, IATA	(A) 3082 / (B) 2735
UN proper shipping name ADR, IMDG, IATA	(A) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUII N.O.S. (REACTION: Bisphenol A Epoxy Resin) (B) AMINES, LIQUID, CORROSIVE, NO (trimetilhexanmetilendiamina; Isphorondiamine)
Transport hazard class(es)	
ADR, IMDG, IATA Class Label	(A) 9 / (B) 8 (A) 9 / (B) 8
Packing group ADR, IMDG, IATA	(A) III / (B) III
Environmental hazards: Marine pollutant:	Yes
Special precautions for user Kemler Number: EMS Number:	Not applicable. (A) 90 / (B) 80 (A) F-A, S-F (B) F-A, S-B
Transport in bulk according to Annex II of MAI the IBC Code	RPOL73/78 and Not applicable.
Transport/Additional information:	
ADR Limited quantities (LQ) Tunnel restriction code	(A) 5 L / (B) 5 kg (A) [E] / (B) [E]



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15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · New Zealand Inventory of Chemicals

All ingredients are listed.

- · Designation according to EC guidelines:
- · Hazard-determining components of labelling: Contains epoxy constituents. See information supplied by the manufacturer.
- · 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.
- H361 Suspected of damaging fertility or the unborn child.
- 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.
- R62 Possible risk of impaired fertility.
- R68 Possible risk of irreversible effects.

\cdot Department issuing data specification sheet:

Hilti Corporation

Business Unit Chemicals

Quality/Safety/Environment

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 \cdot * Data compared to the previous version altered.

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