

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

Version number 2

Revision: 14.06.2013

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

#### · Product identifier

- Trade name: <u>CM 405-1 (A&B)</u>
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- $\cdot$  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

<ul> <li>Classification according to Directive 67/548/EEC or Directive 1999/45/EC</li> <li>C: Corrosive</li> <li>R34: Causes burns.</li> <li>R35: C: Corrosive</li> <li>R34: Causes burns.</li> <li>R35: C: Corrosive</li> <li>R36/38: Irritating to eyes and skin.</li> <li>R36/38: Irritating to eyes and skin.</li> <li>R43: May cause sensitisation by skin contact.</li> <li>R35: R35: To solve to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>Classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.</li> <li>Label effects</li> <li>Classification is not explicible in accordance with EC Directives / Ordinance on Hazardous Materials (GefStofFV).</li> <li>Code letter and hazard designation of product:</li> <li>Expend-designation of product:</li> <li>Dangerous for the environment in Dangerous for the environment.</li> <li>Corrosive In Dangerous for the environment.</li> <li>Corrosive In Dangerous for the environment in the with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.</li> <li>Cabel designation of product:</li> <li>Dabeling according to EU guidelines: In product has been classified and labeled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStofFV).</li> <li>Code letter and hazard designation of product:</li> <li>Dangerous for the environment in the available designation of product:</li> <li>Dangerous for the environment in the available designation of product:</li> <li>Spin 12-term azateriadecamethylemediamine benzy al achoid by available designation of product:</li> <li>Maree advecter designation of product:</li> <li>Dangerous for the environment in the available designation of product:</li> <li>Spin 12-term azateriadecamethylemediamine benzy al ac</li></ul>	· Classification of th	e substance or mixture
R34:       Causes burns.         R2021/22-68-62:       Harmful by inhalation, in contact with skin and if swallowed. Possible risk of irreversible effects. Possible risk of irre	· Classification acco	rding to Directive 67/548/EEC or Directive 1999/45/EC
Xr: 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       Xi: Sensitising         R43:       May cause sensitisation by skin contact.         Xi: Sensitising       N: Dangerous for the environment         R51/53:       Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         Classification system:       Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         Classification system:       Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         Classification system:       Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         Labeling according to EU guidelines:       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.         Labeling according to EU guidelines:       The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)         Cdc letter and hazard designation of product:       N Dangerous for the environment         3.69.12-term-azatetradecamethylemediamine       Bearyl alcohol         Parayl alcohol       Corro	C; Corrosive	
R20/21/22-68-62:       Harmful by inhalation, in contact with skin and if swallowed. Possible risk of impaired fertility.         R20/21/22-68-62:       Harmful by inhalation, in contact with skin and if swallowed. Possible risk of impaired fertility.         R30       Xi; Irritant         R36/38:       Irritating to eyes and skin.         R36/38:       Irritating to eyes and skin.         R41:       May cause sensitisation by skin contact.         R42:       May cause sensitisation by skin contact.         R43:       No pangerous for the environment         R51/33:       Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.         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       Labeling according to EU guidelines: The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)         • Code letter and hazard designation of product:       Imagerous for the environment         36.91.2 * etter-azatertadecamethylenediamine Benzyl alcohol reazardous for the environment       Imagerous for the environment         S1.91.2 * etter-azatertadecamethylenediamine Benzyl alcohol reazardous of tabelling: Toxyl alcohol reazardous designation epoxy resin (number average molecular weight = 700) 2.3-epoxypropt o-tolyl etter       Imagerous for the environment         Buzzyl alco	R34:	Causes burns.
impaired fertility. impaired fertility. Rise Air and Air Air and Air and Air and Air and Air	Xn; Harmful	
R36/38:       Irritating to eyes and skin.         Image: Signal Sig	R20/21/22-68-62:	
Xi; Sensitising         R43:       May cause sensitisation by skin contact.         Image: Sensitisation system:         The classification system:         The classification system:         The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)         Code letter and hazard designation of product:         Image: Sensitis Sensis Sensitis Sensitis Sensitis Sensitis Sensitis Sensis Sensit Sens	Xi; Irritant	
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<ul> <li>3,6,9,12-tetra-azatetradecamethylenediamine</li> <li>Benzyl alcohol</li> <li>reaction product: bisphenol-A-(epichlorhydrin) epoxy resin</li> <li>(number average molecular weight = 700)</li> <li>2,3-epoxypropyl o-tolyl ether</li> <li>Risk phrases:</li> <li>20/21/22 Harmful by inhalation, in contact with skin and if swallowed.</li> <li>34 Causes burns.</li> <li>36/38 Irritating to eyes and skin.</li> </ul>		
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36/38 Irritating to eyes and skin.	20/21/22 Harmful b	
(conta. or page 2)		o eyes and skin. (Contd. on page 2)



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Trade name: CM 405-1 (A&B)

- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 68 Possible risk of irreversible effects.
- 62 Possible risk of impaired fertility.

#### · Safety phrases:

- 25 Avoid contact with eyes.
- 26 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).
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· Special labelling of certain preparations:

- Contains epoxy constituents. See information supplied by the manufacturer.
- Restricted to professional users.
- · Other hazards
- $\cdot$  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.

· 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; X R51/53	10-25%
	Aquatic Chronic 2, H411; () Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 100-51-6 EINECS: 202-859-9		10-25%
	Okazar A, H302; Acute Tox. 4, H332	
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine C R34;   Xn R21/22;  Xi R43 R52/53	10-25%
	Skin Corr. 1B, H314; (1) Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
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	2,5-109
	🕸 Muta. 2, H341; 🚸 Aquatic Chronic 2, H411; 🚸 Skin Irrit. 2, H315; Skin Sens. 1, H317	
CAS: 25620-58-0 EINECS: 247-134-8	trimethylhexane-1,6-diamine C R34; Xn R22; Xi R43	2,5-109
<u></u>	Skin Corr. 1B, H314; () Acute Tox. 4, H302; Skin Sens. 1, H317	2.54
CAS: 80-05-7 EINECS: 201-245-8	bisphenol A Xn R62; Xi R37-41; Xi R43 R52	2-5%
	Repr. Cat. 3	
	🕸 Repr. 2, H361f; 🧇 Eye Dam. 1, H318; 🗘 Skin Sens. 1, H317; STOT SE 3, H335	
· Dangerous compone	ents A:	
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 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	
	Z,3-epoxypropyro-totyr 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 compone	ents B:	
CAS: 100-51-6	Benzyl alcohol	
EINECS: 202-859-9	Xn R20/22 Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine C R34; Xn R21/22; Xi R43 R52/53	
	Skin Corr. 1B, H314; (1) Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chro	
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#### Trade name: CM 405-1 (A&B)

	(Contd. of page 2)
CAS: 25620-58-0	trimethylhexane-1,6-diamine
EINECS: 247-134-8	📴 C R34; 💥 Xn R22; 💥 Xi R43
	Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317
CAS: 80-05-7	bisphenol A
EINECS: 201-245-8	🗙 Xn R62; 💥 Xi R37-41; 🗙 Xi R43
	R52
	Repr. Cat. 3
· Additional informa	tion For the wording of the listed risk phrases refer to section 16.

tional information For the wording of the listed risk phrases refer to section

#### 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
- 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	
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.	
• 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.	
· Eye protection:	
Tightly sealed safety glasses.	
EN 166 + EN 170	
• Body protection: Protective work clothing	

· Body protection: Protective work clothing.

## 9 Physical and chemical properties

· Information on basic physical and chemical properties		
· General Information		
<ul> <li>Appearance: Form:</li> </ul>	Fluid	
Colour:	Light yellow	
· Odour:	Amine-like	
· pH-value at 20 °C:	11	
<ul> <li>Change in condition Melting point/Melting range Boiling point/Boiling range:</li> </ul>		
· 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	
· Solubility in / Miscibility with Water:	Partly miscible	
<ul> <li>Viscosity:</li> <li>dynamic:</li> <li>Other information</li> </ul>	Not determined. 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
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

· Hazardous decomposition products: Corrosive gases/vapours

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To	
1 OXI	cological information
Infor	nation on toxicological effects
	toxicity:
LD/L	C50 values that are relevant for classification:
100-5	1-6 Benzyl alcohol
Oral	LD50 1230 mg/kg (rango)
Derm	al LD50 2000 mg/kg (rbt)
2855-	13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Oral	LD50 1030 mg/kg (rango)
25620	-58-0 trimethylhexane-1,6-diamine
Oral	LD50 900 mg/kg (rango)
The p	ional toxicological information: roduct shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations
issued Corro	in the latest version:
issued Corroz Produ	in the latest version: sive ct is suspected to cause injury to foetus. ogical information
issued Corros Produ Ecol	in the latest version: sive ct is suspected to cause injury to foetus. ogical information ity
issued Corro Produ Ecol Toxic Aqua	in the latest version: sive ct is suspected to cause injury to foetus. ogical information
issued Corro Produ Ecol Toxic Aqua Persis Behav	in the latest version: sive ct is suspected to cause injury to foetus. ogical information ity tic toxicity: No further relevant information available. stence and degradability No further relevant information available. viour in environmental systems:
issued Corro Produ Ecol Toxic Aqua Persis Behav Bioac	in the latest version: sive ct is suspected to cause injury to foetus. ogical information ity it to toxicity: No further relevant information available. stence and degradability No further relevant information available. viour in environmental systems: cumulative potential No further relevant information available.
issued Corror Produ Ecol Toxic Aquat Persis Behav Bioac Mobi	in the latest version: sive ct is suspected to cause injury to foetus. ogical information ity it to toxicity: No further relevant information available. stence and degradability No further relevant information available. viour in environmental systems: cumulative potential No further relevant information available. lity in soil No further relevant information available.
issued Corror Produ <b>Ecol</b> Toxic Aquar Persis Behav Bioac Mobil Ecoto	in the latest version: sive ct is suspected to cause injury to foetus. ogical information ity it to toxicity: No further relevant information available. stence and degradability No further relevant information available. viour in environmental systems: cumulative potential No further relevant information available. lity in soil No further relevant information available. xical effects:
issued Corro Produ Toxic Aqua Persis Behav Bioac Mobi Ecoto Rema	in the latest version: sive ct is suspected to cause injury to foetus. ogical information ity it to toxicity: No further relevant information available. stence and degradability No further relevant information available. viour in environmental systems: cumulative potential No further relevant information available. lity in soil No further relevant information available. stical effects: rk: Toxic for fish
issued Corro Produ Corro Produ Corro Aqual Persis Behav Bioac Mobil Ecoto Rema	in the latest version: sive ct is suspected to cause injury to foetus. ogical information ity it to toxicity: No further relevant information available. stence and degradability No further relevant information available. viour in environmental systems: cumulative potential No further relevant information available. lity in soil No further relevant information available. xical effects:
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issued Corror Produ Toxic Aqua Persis Behav Bioac Mobil Ecoto Rema Addit Gener Water Do no	in the latest version: sive ct is suspected to cause injury to foetus. ogical information ity ic toxicity: No further relevant information available. stence and degradability No further relevant information available. viour in environmental systems: cumulative potential No further relevant information available. lity in soil No further relevant information available. xical effects: rk: Toxic for fish ional ecological information: ral notes:

· **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	<ul> <li>(A) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI</li> <li>N.O.S. (REACTION: Bisphenol A Epoxy Resin)</li> <li>(B) A M I N E S, L I Q U I D, C O R R O S I V E, N O (trimetilhexanmetilendiamina; Isphorondiamine)</li> </ul>
· Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class	(A) 9 / (B) 8
· Label	(A) 9 / (B) 8
· Packing group	
· ADR, IMDG, IATA	(A) III / (B) III



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

Version number 2

Revision: 14.06.2013

Trade name: CM 405-1 (A&B)

		(Contd. of page 5
· Environmental hazards: · Marine pollutant:	Yes	
<ul> <li>Special precautions for user</li> <li>Kemler Number:</li> <li>EMS Number:</li> </ul>	Not applicable. (A) 90 / (B) 80 (A) F-A, S-F (B) F-A, S-B	
· Transport in bulk according to Annex II of MAR 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]	

### **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.
- · 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.
- R62 Possible risk of impaired fertility.
- R68 Possible risk of irreversible effects.

• Department issuing data specification sheet:

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