

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

Version number 2

Revision: 14.06.2013

Hazardous according to criteria of Australian Safety and Compensation Council

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 (Aust.) Pty. Ltd.
Level 5, 1G Homebush Bay Drive Rhodes N.S.W. 2138
Australia
Phone: 131 292
Fax: 1300 135 042
Email: serviceaustralia@hilti.com

 Informing department: see section 16
 Emergency telephone number: Schweizerisches Toxikologisches Informationszentrum - 24 h Service Tel.: 0041 / 44 251 51 51 (international)

Hilti (Aust.) Pty. Ltd. Phone: 131 292 Fax: 1300 135 042

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; Harmfu	
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; Sensitisi	ng
R43:	May cause sensitisation by skin contact.
N; Dangerou	is for the environment
R51/53: • Classification system The classification is by supplier compan	in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished
· Label elements	
	ng to EU guidelines: n classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
\cdot Code letter and ha	zard designation of product:
	C Corrosive N Dangerous for the environment
3,6,9,12-tetra-azate Benzyl alcohol	ng components of labelling: rradecamethylenediamine sphenol-A-(epichlorhydrin) epoxy resin
	blecular weight = 700)
Risk phrases:20/21/22 Harmful b34Causes bu	y inhalation, in contact with skin and if swallowed.

(Contd. on page 2)

- AU



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

Version number 2

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

Revision: 14.06.2013

(Contd. of page 1)

- 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.
- Special labelling of certain preparations:

Contains epoxy constituents. See information supplied by the manufacturer.

Restricted to professional users.

· Information pertaining to particular dangers for man and environment

- · Safety phrases:
- Avoid contact with eyes.In case of contact with ey
 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29 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.
- · 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; № N R51/53 Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
CAS: 100-51-6 EINECS: 202-859-9	 Sharing a constraint of binary and a constraint of binary sharing a constraint o	10-25%
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; ♦ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	10-25%
CAS: 2210-79-9 EINECS: 218-645-3	2,3-epoxypropyl o-tolyl ether Xn R68; X Xi R38; X Xi R43; N R51/53 Muta. Cat. 3	2.5-10%
CAS: 25620-58-0 EINECS: 247-134-8	trimethylhexane-1,6-diamine C R34; Xn R22; Xi R43 Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1, H317	2.5-109
CAS: 80-05-7 EINECS: 201-245-8	bisphenol A X n R62; X Xi R37-41; X Xi R43 R52 Repr. Cat. 3	2-5%
Dangerous compon	ents A:	
CAS: 25068-38-6 NLP: 500-033-5 CAS: 2210-79-9	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi R36/38; Xi R43; R N R51/53 Aquatic Chronic 2, H411; (1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 2,3-epoxypropyl o-tolyl ether Xi 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		
CAS: 100-51-6 EINECS: 202-859-9	① 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; ↑ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chro	nic 3, H412
		ntd. on page



Printing date 14.06.2013

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 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.

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.



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 3)
· 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	
· Rody protection: Protective work clothing	

· Body protection: Protective work clothing.

9 Physical and chemical properties

· Information on basic physical and chemical properties		
· General Information		
 Appearance: Form: 	Fluid	
Colour:	Light yellow	
· Odour:	Amine-like	
· pH-value at 20 °C:	11	
 Change in condition Melting point/Melting range Boiling point/Boiling range: 		
· 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	
 Viscosity: dynamic: Other information 	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

(Contd. on page 5)

ΑĪ



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 4)

	(Conta, of page
Toxicological infor	mation
<u> </u>	
Information on toxicolo Acute toxicity:	gical effects
•	e relevant for classification:
	e relevant for classification:
100-51-6 Benzyl alcohol	
Oral LD50 1230 mg/	
Dermal LD50 2000 mg/	
	yl-3,5,5-trimethylcyclohexylamine
Oral LD50 1030 mg/	
25620-58-0 trimethylhe	
Oral LD50 900 mg/k	g (rango)
Primary irritant effect:	
	t on skin and mucous membranes.
on the eye: Strong causti	
Sensitization: Sensitizati	on possible by skin contact.
· Additional toxicological	
The product shows the fo	lowing dangers according to the calculation method of the General EC Classification Guidelines for Preparations
issued in the latest version	
Corrosive	
Product is suspected to ca	use injury to foetus.
Ecological informa	tion
Toxicity	
Aquatic toxicity: No fur	her relevant information available.
Persistence and degrada	bility No further relevant information available.
Behaviour in environme	ntal systems:
	al No further relevant information available.
· Mobility in soil No furth	er relevant information available.
Ecotoxical effects:	
Remark: Toxic for fish	
Additional ecological in	ormation:
General notes:	
Water danger class 3 (Ge	man Regulation) (Self-assessment): extremely hazardous for water.
	ach ground water, water bodies or sewage system, even in small quantities.
Results of PBT and vPv	
PBT : Not applicable	

- · **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 · ADG, IMDG, IATA	(A) 3082 / (B) 2735
· UN proper shipping name · ADG, IMDG, IATA	 (A) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUI N.O.S. (REACTION: Bisphenol A Epoxy Resin) (B) A M I N E S, L I Q U I D, C O R R O S I V E, N C (trimetilhexanmetilendiamina; Isphorondiamine)
· Transport hazard class(es)	
· ADG, IMDG, IATA · Class · Label	(A) 9 / (B) 8 (A) 9 / (B) 8
· Packing group · ADG, 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
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 MARPOL73/78 at the IBC Code	nd Not applicable.
· Transport/Additional information:	
· ADG · 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
· Australian Inventory of Chemical Substances
All ingredients are listed.
· Standard for the Uniform Scheduling of Drugs and Poisons
None of the ingredients is 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.
- 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:

Hilti Corporation Business Unit Chemicals Quality/Safety/Environment FL-9494 Schaan / Liechtenstein

chemicals.hse@hilti.com Tel.: +423 234 3004 FAX .: +423 234 3462

* * Data compared to the previous version altered.