

Safety data sheet

	according to 1907/2006/EC, Article 31	
nting date 14.06.2013	Version number 2	Revision: 14.06.2
Identification of the su	bstance/mixture and of the company/undertaking	
· Product identifier		
· Sector of Use Building and con	e substance or mixture and uses advised against	
• Details of the supplier of the • Manufacturer/Supplier: P.T. Hilti Nusantara Gedung 111 GCS Kawasan Komersial Cilandak JI. Raya Cilandak KKO Jakarta 12560 Tel +62 21 789 0850 Fax + 62 21 789 0845	afety data sheet	
• Informing department: see se • Emergency telephone numbe Schweizerisches Toxikologisch Tel.: 0041 / 44 251 51 51 (inte	r: es Informationszentrum - 24 h Service	
P.T. Hilti Nusantara Tel +62 21 789 0850 Fax + 62 21 789 0845		
2 Hazards identification		
	• • •	
· Classification of the substanc		
C; Corrosive	irective 67/548/EEC or Directive 1999/45/EC	
R34: Causes bu	rns.	
Xn; Harmful		
	by inhalation, in contact with skin and if swallowed. Possible risk e effects.	of impaired fertility. Possible risl
Xi; Irritant		
R36/38: Irritating	o eyes and skin.	
Xi; Sensitising		
R43: May caus	e sensitisation by skin contact.	
• Information concerning part The product has to be labelled valid version. • Classification system:	o aquatic organisms, may cause long-term adverse effects in the aquatic e icular hazards for human and environment: Jue to the calculation procedure of the "General Classification guideline a current EC lists. It is expanded, however, by information from technical	for preparations of the EU" in the l
by supplier companies.	· ·	•
 Label elements Labelling according to EU gu 		
*	and labelled in accordance with EC Directives / Ordinance on Hazardou	s Materials (GefStoffV)
· Code letter and hazard desig	iation of product:	
C Corrosive		
• Hazard-determining compon 3-aminomethyl-3,5,5-trimethyle trimethylbexane-1 6-diamine		

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

Risk phrases:
 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 34 Causes burns.

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- 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.
- 62
- Possible risk of impaired fertility. Possible risk of irreversible effects. 68

· Safety phrases:

25 Avoid contact with eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 26

- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 45

· 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.

· Dangerous compone	ents:	
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	25-50%
CAS: 100-51-6 EINECS: 202-859-9	Benzyl alcohol 9	
CAS: 25620-58-0 EINECS: 247-134-8	rimethylhexane-1,6-diamine C R34; X R22; X R43 ♦ Skin Corr. 1B, H314; ♦ Acute Tox. 4, H302; Skin Sens. 1, H317	
CAS: 80-05-7 EINECS: 201-245-8	bisphenol A	2,5-10%
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	2,5-10%
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%
· 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; ① Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	2,3-epoxypropyl o-tolyl ether Xn R68; Xi R38; Xi R43; N R51/53 Muta. Cat. 3	
· Dangerous compone	ents B:	
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	onic 3. H412



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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.

itional information For the wording of the listed risk phrases refer to section I

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.
- 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.

• Environmental precautions: Do not allow to enter drainage system, surface or ground water.

- \cdot 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.	
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.	

9 Physical and chemical properties

7 nysten and chemical properties		
Information on basic physical and ch General Information Appearance:	nemical properties	
Form:	Fluid	
Colour:	Light yellow	
· Odour:	Amine-like	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Not determined > 60 °C	
· Flash point:	Not applicable	
· Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
· Critical values for explosion:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density	Not determined	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Partly miscible	
· Partition coefficient (n-octanol/water	r): 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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- · 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: · LD/LC50 values that are relevant for classification:

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral LD50 1030 mg/kg (rango)

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.

UN-Number	
ADR, IMDG, IATA	(A) - / (B) 2735
UN proper shipping name	
ADR, IMDG, IATA	(A) -
	(B) AMINES, LIQUID, CORROSIVE, NOS
	(trimetilhexanmetilendiamina; Isphorondiamine)

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· Transport hazard class(es)			(contai of page c)
· ADR, IMDG, IATA			
· Class	(A)	/ (B) 8	
· Label	(Á)	/ (B) 8	
· Packing group · ADR, IMDG, IATA	(A)	/ (B) III	
Environmental hazards: Marine pollutant:	No		
· Special precautions for user · EMS Number:	Not applic: (A) - (B) F-A, S		
• Transport in bulk according to Annex II of MARPOL73 the IBC Code	3/78 and Not applica	able.	
· 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.

- · National regulations
- · 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
- R68 Possible risk of irreversible effects.

· Department issuing data specification sheet:

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