

Version number 1

Revision: 18.07.2013

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: Hilti OneStep Anchor HOS-C N15
- · Container size HOS-C 120 250
- \cdot Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use SU2a Mining, (without offshore industries)
- · Application of the substance / the preparation

Rock anchor for the stabilization of tunnels, galleries and the like in mining.

The Hilti OneStep-Anchor is classified as an article in accordance with section 3, paragraph 5, of the EC Chemicals Bill. The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials.

\cdot 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:** anchor.hse@hilti.com 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 Regulation (EC) No 1272/2008

In accordance with article 3 (3) of REACH, this / these item(s) are products. A product is not subject to the mandatory marking regulations applicable to dangerous substances. The product is not classified as hazardous to health or environment according to the CLP regulation.

· Additional information:

The OneStep-Anchor presents no hazards to be particularly mentioned if used correctly. Please note the information of this Material Safety Data Sheet.

The OneStep-Anchor forms a unit in which the constituents are contained in encapsulated form (dual foil pack) inside a steel tube. Access to the integrated foil pack and thus to the components A and B is possible only through intentional, forceful manipulation and misuse of the product.

The integrated dual foil pack contains inflammable constituents.

The inhalation of styrene vapors is harmful.

Skin contact with component B (white) may cause sensitization.

Components A and B are irritating to the eyes and skin.

Although this product is not subject to identification regulations, we recommend that the safety suggestions are observed The usual measures for work hygiene and the governmental regulations must be followed

· Label elements			
· Labelling accor	ding to Regulation (EC) No 1272/2008 Void		
 Hazard pictogra 	ams Void		
· Signal word Voi	d		
· Hazard stateme	nts Void		
· Precautionary s	tatements		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P235+P410	Keep cool. Protect from sunlight.		
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P262	Do not get in eyes, on skin, or on clothing.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and	
	easy to do. Continue rinsing.	
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
Additional inform	nation:	
Safety data sheet a	available on request.	
Other hazards	-	
Desults of DDT of	nd vDvD agaggement	

- Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description:

Rock anchor with internally integrated 2-component foil pack. The foil pack unit contains: Unsaturated polyester resin with styrene, acrylate, filler materials Phlegmatized dibenzoyl peroxide as a paste, filler materials

· Dangerous components:

100-42-5		<12.5%
	Flam. Liq. 3, H226; (1) Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
15625-89-5	Trimethylolpropane triacrylate	2.5-10%
	(1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	dibenzoyl peroxide	<2.5%
	🔗 🚸 Org. Perox. B, H241; 🚸 Eye Irrit. 2, H319; Skin Sens. 1, H317	
99-97-8	N,N-dimethyl-p-toluidine	<1%
	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; 🗞 STOT RE 2, H373;	
	Aquatic Chronic 3, H412	
· 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
- After skin contact Instantly wash with water and soap and rinse thoroughly. If skin irritation persist, call a physician.
- · After eve contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- · After swallowing Rinse out mouth and then drink plenty of water.
- · 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. Sand
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- Special hazards arising from the substance or mixture Can be released in case of fire Carbon monoxide (CO) Carbon dioxide (CO2) Nitrogen oxides (NOx) Under certain fire conditions, traces of other toxic gases cannot be excluded. · Advice for firefighters

· Protective equipment:

In the event of fire, wear self contained breathing apparatus

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EN 136 / EN 141 / EN 143

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- Keep away from ignition sources
- Environmental precautions: Do not allow to enter the ground/soil.
- \cdot Methods and material for containment and cleaning up:
- Collect mechanically.
- Remove remainders with solvent and liquid-binding material.
- Dispose of contaminated material as waste according to item 13.
- Ensure adequate ventilation.

· 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** Observe expiry date.
- Keep ignition sources away Do not smoke. Do not disassemble the OneStep bolt
- Do not disassemble the OneStep bolt
- **Information about protection against explosions and fires:** keep away from heat and direct sunlight
- Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- **Requirements to be met by storerooms and containers:** Keep in a cool, dry and dark place; -20 °C to 25 °C.
- Please attend to the local storage regulations for underground mining operations
- Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Please attend to the local storage regulations for underground mining operations Protect from heat and direct sunlight.
- · Storage class 11
- · Specific end use(s) Rock anchor for stabilizing tunnels, galleries and the like.

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 has a pasty consistency. Exposure limit values for respirable dusts ar not relevant for this product.

100-42-5 styrene

- NES Short-term value: 426 mg/m³, 100 ppm
 - Long-term value: 213 mg/m³, 50 ppm
- Additional information: The lists that were valid during the compilation were used as basis.
- · Exposure controls
- · Personal protective equipment

\cdot General protective and hygienic measures

- The usual precautionary measures should be adhered to general rules for handling chemicals.
- Do not eat, drink or smoke while working.
- 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.
- Take off immediately all contaminated clothing
- Breathing equipment: Not required.

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Protective gloves

EN 374 / EN 388

· Protection of hands:

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

Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

· Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

\cdot 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. \cdot Eye protection:



Tightly sealed safety glasses.

Face protection • Body protection:



Protective work clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties General Information		
Appearance:		
Form:	GRP-Bolt – integrated dual foil pack inside	
Colour:	foil package	
	grey-green-white	
Odour:	Aromatic	
Odour threshold:	Not determined.	
pH-value:	Not applicable	
Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Flash point:	31 °C (DIN 53213)	
Inflammability (solid, gaseous)	Not determined.	
Ignition temperature:	350 °C	
Decomposition temperature:	Not determined.	
Self-inflammability:	Product is not selfigniting.	
Danger of explosion:	Product is not explosive.	
Critical values for explosion:		
Lower:	1.2 Vol % (Styrol)	
Upper:	8.9 Vol % (Styrol)	
Vapour pressure at 20 °C:	7.1 hPa (Styrol)	
Density	Not determined	
Relative density	Not determined.	
Vapour density	Not applicable.	

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· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Unsoluble	
· Partition coefficient (n-octanol/wa	ater): Not determined.	
· Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
· Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity

- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

Non-observance of the specified storage conditions (see section 7) will lead to gradual decomposition of the dibenzoylperoxide. This will make the product unusable.

To avoid thermal decomposition do not overheat.

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions No dangerous reactions known

• Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

100-42-5 styrene

Oral LD50 5000 mg/kg (rat)

Inhalative LC50/4h 24 mg/l (rat)

· Primary irritant effect:

 \cdot on the skin: Irritant to skin and mucous membranes.

• on the eye: Irritant effect.

• Sensitization: Sensitization possible by skin contact.

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.
- · Additional ecological information:
- According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:

None

· General notes:

The product does not contain organically bounded halogens (AOX-free).

- Generally not hazardous for water.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- \cdot Other adverse effects No further relevant information available.

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13 Disposal considerations

\cdot Waste treatment methods

$\cdot \ \textbf{Recommendation}$

Unusable anchors must be collected separately. For disposal, local regulations issued by the authorities must be observed.

Consult the manufacturer if necessary.

For disposal, local regulations issued by the authorities must be observed.

Hand over to disposers of hazardous waste.

· Uncleaned packagings:

· Recommendation:

Non contaminated packagings can be reused.

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

4 Transport information	
· UN-Number · ADG, ADN, IMDG, IATA	Void
• UN proper shipping name • ADG, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADG, ADN, IMDG, IATA · Class	Void
· Packing group · ADG, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
\cdot Special precautions for user	Not applicable.
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications. Assessment BAM Nr. II.2-1061 2/02 and Nr. II.2-324/03, Nr. II.2-135/09 Assessment BAM Nr. 2.2-109/13
· UN "Model Regulation":	-

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Australian Invento	ry of Chemical Substances	
All ingredients are listed.		
· Standard for the Uniform Scheduling of Drugs and Poisons		
100-42-5 styrene		\$5
94-36-0 dibenzoyl	peroxide	S2, S4, S5

· 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

H226 Flammable liquid and vapour.

H241 Heating may cause a fire or explosion.

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H301 Toxic if swallowed.	
H311 Toxic in contact with skin.	
H315 Causes skin irritation.	
H317 May cause an allergic skin reaction.	
H319 Causes serious eye irritation.	
H311 Toxic if inhaled	
H332 Harmful if inhaled.	
H373 May cause damage to organs through prolonged or repeated exposure.	
H412 Harmful to aquatic life with long lasting effects.	
· Department issuing data specification sheet:	
Hilti Entwicklungsgesellschaft mbH	
Hiltistrasse 6	
D-86916 Kaufering	
Tel.: +49 8191 906310	
Fax: +49 8191 900510	
e-mail: anchor.hse@hilti.com	
• Contact: Mechthild Krauter	
· Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriag	ge of Dangerous Goods
by Road) IMDC: International Maritima Code for Denourous Coode	
IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association	
GHS: Globally Harmonized System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	AUEN