

Hilti Crack Injection System CI 060

Safety information for 2-Component-products

Date of issue: 09/08/2016

Revision date: 09/08/2016

Supersedes: 09/08/2016

Version: 8.0

SECTION 1: Kit identification

1.1 Product identifier

Name Hilti Crack Injection System CI 060
 Product code BU Chemicals

1.2 Details of the supplier of the Safety information for 2-Component-products

Hilti (New Zealand) Ltd.
 525 Great South Road
 1061 Auckland - Neuseeland
 T +64 9 571 9995
 ; 800 444 584 toll free - F +64 9526 7780
servicenz@hilti.com

SECTION 2: General information

A SDS for each of these components is included. Please do not separate any component SDS from this cover page

SECTION 3:

Classification of the Product

Classification according to the United Nations GHS (Rev. 4, 2011)

Label elements

Labelling according to the United Nations GHS (Rev. 4, 2011)

Hazard pictograms (GHS-UN)



GHS05

GHS07

GHS08

GHS09

Signal word (GHS-UN)

Danger

Hazard statements (GHS-UN)

H302+H312 - Harmful if swallowed or in contact with skin
 H314 - Causes severe skin burns and eye damage
 H317 - May cause an allergic skin reaction
 H341 - Suspected of causing genetic defects
 H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-UN)

P260 - Do not breathe vapours
 P273 - Avoid release to the environment
 P280 - Wear eye protection, protective clothing, protective gloves
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P308+P313 - IF exposed or concerned: Get medical advice/attention

Additional information

Hilti Crack Injection System CI 060

Safety information for 2-Component-products

Name	General description	Quantity	Unit	Classification according to the United Nations GHS (Rev. 4, 2011)
CI 060, B		1	pcs (pieces)	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CI 060, A		1	pcs (pieces)	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411

SECTION 4: General advice

No data available

SECTION 5: Safe handling advice

Environmental precautions	Avoid release to the environment
Storage conditions	Store locked up Store in a well-ventilated place Keep cool
Precautions for safe handling	Ensure good ventilation of the work station Obtain special instructions before use Do not handle until all safety precautions have been read and understood Do not get in eyes, on skin, or on clothing Wear personal protective equipment Avoid breathing vapours
Methods for cleaning up	Notify authorities if product enters sewers or public waters
For containment	Collect spillage

SECTION 6: First aid measures

First-aid measures after eye contact	Rinse eyes with water as a precaution
First-aid measures after ingestion	Rinse mouth Call a poison center or a doctor if you feel unwell
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing
First-aid measures after skin contact	Wash skin with plenty of water Take off contaminated clothing If skin irritation or rash occurs: Get medical advice/attention
First-aid measures general	IF exposed or concerned: Get medical advice/attention Call a poison center or a doctor if you feel unwell
Symptoms/injuries after skin contact	May cause an allergic skin reaction
Other medical advice or treatment	Treat symptomatically

SECTION 7: Fire fighting measures

Protection during firefighting	Do not attempt to take action without suitable protective equipment Self-contained breathing apparatus Complete protective clothing
Hazardous decomposition products in case of fire	Toxic fumes may be released

SECTION 8: Other information

No data available

CI 060, A

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Date of issue: 09/08/2016

Version: 8.0

Revision date: 09/08/2016

Supersedes: 09/08/2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	Mixture
Name	CI 060, A
Product code	BU Chemicals

1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Hilti (New Zealand) Ltd.
 525 Great South Road
 1061 Auckland - Neuseeland
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Department issuing data specification sheet

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 Feldkircherstraße 100
 9494 Schaan - Liechtenstein
 T +423 234 2111 - F +423 234 2965
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1.4. Emergency telephone number

Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service +41 44 251 51 51 (international) +64 9 571 9995 ; 800 444 584 toll free
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS (Rev. 4, 2011)

Flam. Liq. Not classified	
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Skin Sens. 1	H317
Muta. 2	H341
Aquatic Acute 2	H401
Aquatic Chronic 2	H411
Full text of hazard classes and H-statements : see section 16	

2.2. Label elements

Labelling according to the United Nations GHS (Rev. 4, 2011)

Hazard pictograms (GHS-UN)



CI 060, A

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Signal word (GHS-UN)	Warning
Hazardous ingredients	Bisphenol-A-Epichlorhydrin Epoxy resin Average MW < 700 ; 2,3-epoxypropyl o-tolyl ether
Hazard statements (GHS-UN)	H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H341 - Suspected of causing genetic defects H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS-UN)	P273 - Avoid release to the environment P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+P313 - IF exposed or concerned: Get medical advice, medical attention P333+P313 - If skin irritation or rash occurs: Get medical advice, medical attention

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
Bisphenol-A-Epichlorhydrin Epoxy resin Average MW < 700	(CAS No) 25068-38-6	60 - 80	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2,3-epoxypropyl o-tolyl ether	(CAS No) 2210-79-9	25 - 40	Muta. 2, H341 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact	Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	Serious damage to eyes.
Symptoms/injuries after ingestion	Burns.

CI 060, A

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment Collect spillage.
Methods for cleaning up Take up liquid spill into absorbent material.
Other information Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Do not breathe vapours. Wear personal protective equipment.
Hygiene measures Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

CI 060, A

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

8.2. Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station.
 Environmental exposure controls Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection

Type	Material	Permeation
Reusable gloves	Butyl rubber, Fluoroelastomer (FKM) , Polyvinylalcohol (PVA)	3 (> 60 minutes)

Eye protection

Type	Use	Characteristics
Safety glasses		

Skin and body protection

Wear suitable protective clothing

Respiratory protection

Wear respiratory protection



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colourless.
Odour	mild.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	138 °C
Auto-ignition temperature	No data available
Decomposition temperature	> 200 °C
Flammability (solid, gas)	Not applicable
Vapour pressure	0.0075 mm Hg
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.15 kg/l
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	500 - 650 mPa.s
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

CI 060, A

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Not classified

Bisphenol-A-Epichlorhydrin Epoxy resin Average MW < 700 (25068-38-6)	
LD50 oral rat	> 2000 mg/kg (Rat; OECD 420: Acute Oral toxicity – Acute Toxic Class Method; Experimental value)
LD50 dermal rat	> 2000 mg/kg (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)

2,3-epoxypropyl o-tolyl ether (2210-79-9)	
LD50 oral rat	> 5000 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
LC50 inhalation rat (mg/l)	6.09 mg/l/4h (Rat)

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Suspected of causing genetic defects.
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Toxic to aquatic life with long lasting effects.

CI 060, A

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Transport document description (IMDG) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) 9
 Danger labels (ADR) 9



IMDG

Transport hazard class(es) (IMDG) 9
 Danger labels (IMDG) 9



IATA

Transport hazard class(es) (IATA) 9
 Hazard labels (IATA) 9



ADN

Transport hazard class(es) (ADN) 9
 Danger labels (ADN) 9



RID

Transport hazard class(es) (RID) 9
 Danger labels (RID) 9



14.4. Packing group

Packing group (ADR) III
 Packing group (IMDG) III

CI 060, A

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Packing group (IATA)	III
Packing group (ADN)	III
Packing group (RID)	III

14.5. Environmental hazards

Dangerous for the environment	Yes (ADR 5.2.1.8.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg))
Marine pollutant	Yes (ADR 5.2.1.8.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg))
Other information	No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	M6
Special provisions (ADR)	274, 335, 601
Limited quantities (ADR)	5I
Packing instructions (ADR)	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	MP19
Orange plates	



Tunnel restriction code (ADR)	E
EAC code	•3Z

- Transport by sea

Special provisions (IMDG)	274, 335, 969
Limited quantities (IMDG)	5 L
Packing instructions (IMDG)	P001, LP01
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-F
Stowage category (IMDG)	A
MFAG-No	171

- Air transport

PCA packing instructions (IATA)	964
PCA max net quantity (IATA)	450L
Special provisions (IATA)	A97, A158, A197

- Inland waterway transport

Classification code (ADN)	M6
Special provisions (ADN)	274, 335, 61
Limited quantities (ADN)	5 L
Excepted quantities (ADN)	E1
Carriage permitted (ADN)	T
Equipment required (ADN)	PP
Number of blue cones/lights (ADN)	0
Carriage prohibited (ADN)	No
Not subject to ADN	No

- Rail transport

Special provisions (RID)	274, 335, 601
Limited quantities (RID)	5L

CI 060, A

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Packing instructions (RID) P001, IBC03, LP01, R001
Carriage prohibited (RID) No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

Full text of H-statements:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H411	Toxic to aquatic life with long lasting effects

SDS_UN_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

CI 060, B

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Date of issue: 09/08/2016

Version: 8.0

Revision date: 12/08/2016

Supersedes: 09/08/2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	Mixture
Name	CI 060, B
Product code	BU Chemicals

1.2. Relevant identified uses of the substance or mixture and uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Hilti (New Zealand) Ltd.
 525 Great South Road
 1061 Auckland - Neuseeland
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 ; 800 444 584 toll free - F +64 9526 7780
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Department issuing data specification sheet

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 9494 Schaan - Liechtenstein
 T +423 234 2111
chemicals.hse@hilti.com

1.4. Emergency telephone number

Emergency number	Schweizerisches Toxikologisches Informationszentrum – 24h Service
	+41 44 251 51 51 (international)
	+64 9 571 9995
	; 800 444 584 toll free

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS (Rev. 4, 2011)

Flam. Liq. Not classified	
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Skin Corr. 1A	H314
Skin Sens. 1	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410
Full text of hazard classes and H-statements : see section 16	

2.2. Label elements

Labelling according to the United Nations GHS (Rev. 4, 2011)

Hazard pictograms (GHS-UN)



CI 060, B

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Signal word (GHS-UN)	Danger
Hazardous ingredients	pentaethylenehexamine; Benzyl alcohol
Hazard statements (GHS-UN)	H302+H312 - Harmful if swallowed or in contact with skin H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS-UN)	P260 - Do not breathe vapours P273 - Avoid release to the environment P280 - Wear eye protection, protective clothing, protective gloves P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
pentaethylenehexamine	(CAS No) 4067-16-7	60 - 80	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Benzyl alcohol	(CAS No) 100-51-6	10 - 25	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	Rinse mouth. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact	Burns. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	Serious damage to eyes.
Symptoms/injuries after ingestion	Burns.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

CI 060, B

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe vapours.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	Collect spillage.
Methods for cleaning up	Take up liquid spill into absorbent material.
Other information	Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours. Wear personal protective equipment.
Hygiene measures	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Store locked up. Store in a well-ventilated place. Keep cool.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	Ensure good ventilation of the work station.
Environmental exposure controls	Avoid release to the environment.

CI 060, B

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection

Type	Material	Permeation
Reusable gloves	Butyl rubber, Fluoroelastomer (FKM) , Polyvinylalcohol (PVA)	3 (> 60 minutes)

Eye protection

Type	Use	Characteristics
Safety glasses		

Skin and body protection

Wear suitable protective clothing

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Black.
Odour	Amine-like.
Odour threshold	No data available
pH	> 13
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	No data available
Flash point	> 60 °C
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.05 kg/l
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	110 - 120 Pa.s
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2. Other information

No additional information available

CI 060, B

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat.

10.5. Incompatible materials

Strong acids. Oxidizing agent. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Oral: Harmful if swallowed.

ATE CLP (oral)	1782.669 mg/kg bodyweight
ATE CLP (dermal)	1222.222 mg/kg bodyweight

pentaethylenhexamine (4067-16-7)	
LD50 oral rat	1600 mg/kg (Rat)

Benzyl alcohol (100-51-6)	
LD50 oral rat	1620 mg/kg
LC50 inhalation rat (mg/l)	> 4178 mg/m ³

Skin corrosion/irritation Causes severe skin burns and eye damage.
pH: > 13

Serious eye damage/irritation Serious eye damage, category 1, implicit
pH: > 13

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity Not classified

Carcinogenicity Not classified

Reproductive toxicity Not classified

Specific target organ toxicity (single exposure) Not classified

Specific target organ toxicity (repeated exposure) Not classified

Aspiration hazard Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Very toxic to aquatic life with long lasting effects.

pentaethylenhexamine (4067-16-7)	
LC50 fish 1	180 mg/l (Poecilia reticulata)
Threshold limit algae 1	0.7 mg/l (Selenastrum capricornutum; Biomass)

CI 060, B

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Danger labels (IMDG) 8



IATA

Transport hazard class(es) (IATA) 8

Hazard labels (IATA) 8



ADN

Transport hazard class(es) (ADN) 8

Danger labels (ADN) 8



RID

Transport hazard class(es) (RID) 8

Danger labels (RID) 8



14.4. Packing group

Packing group (ADR)	III
Packing group (IMDG)	III
Packing group (IATA)	III
Packing group (ADN)	III
Packing group (RID)	III

14.5. Environmental hazards

Dangerous for the environment	Yes (ADR 5.2.1.8.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg))
Marine pollutant	Yes (ADR 5.2.1.8.1 derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 5 kg))
Other information	No supplementary information available

14.6. Special precautions for user

- Overland transport

CI 060, B

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Classification code (ADR)	C7
Special provisions (ADR)	274
Limited quantities (ADR)	1I
Packing instructions (ADR)	P001, IBC02
Mixed packing provisions (ADR)	MP15
Orange plates	



Tunnel restriction code (ADR)	E
EAC code	2X

- Transport by sea

Special provisions (IMDG)	223, 274
Limited quantities (IMDG)	5 L
Packing instructions (IMDG)	P001, LP01
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-B
Stowage category (IMDG)	A
MFAG-No	153

- Air transport

PCA packing instructions (IATA)	852
PCA max net quantity (IATA)	5L
Special provisions (IATA)	A3

- Inland waterway transport

Classification code (ADN)	C7
Special provisions (ADN)	274
Limited quantities (ADN)	5 L
Excepted quantities (ADN)	E1
Carriage permitted (ADN)	T
Equipment required (ADN)	PP, EP
Number of blue cones/lights (ADN)	0
Carriage prohibited (ADN)	No
Not subject to ADN	No

- Rail transport

Special provisions (RID)	274
Limited quantities (RID)	5L
Packing instructions (RID)	P001, IBC03, LP01, R001
Carriage prohibited (RID)	No

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

CI 060, B

Safety Data Sheet

according to the United Nations GHS (Rev. 4, 2011)

Full text of H-statements:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS_UN_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product