

Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015) Issue date: 21/02/2025 Revision date: 21/02/2025

Supersedes: 22/11/2021

Version: 2.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form Trade name UN-No. (ADR) Product code

Mixture CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750 B2 / CF-I 750/B2-SV / CF ISO 750 1950 **BU Fire Protection Foam**

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

Supplier

Hilti (South Africa) (Pty) Ltd. 2 Tugela Lane, Waterfall Logistics Precinct Corner Bridal Veil Road and R101 ZA 2090 Midrand South Africa T +2711 237300, F +2711 2373111 Customercare.za@hilti.com

1.5. Emergency phone number

Emergency number

Department issuing data specification sheet Hilti AG Feldkircherstraße 100 FL 9494 Schaan Liechtenstein T +423 234 2111 product.compliance-fire.protection@hilti.com

Emergency CONTACT (24-Hour-Number): GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

+2711 237300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS		
Aerosol, Category 1	H222;H229	On basis of test data
Skin corrosion/irritation, Category 2	H315	Calculation method
Serious eye damage/eye irritation, Category 2	H319	Calculation method
Respiratory sensitisation, Category 1	H334	Calculation method
Skin sensitisation, Category 1	H317	Calculation method
Carcinogenicity, Category 2	H351	Calculation method
Specific target organ toxicity – Repeated exposure, Category 2	H373	Calculation method
Full text of H-statements: see section 16		



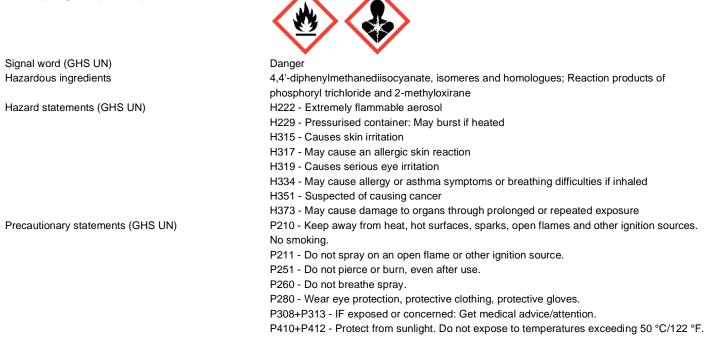
Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)



2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

Name	Product identifier	%	Classification according to
			the United Nations GHS
4,4'-diphenylmethanediisocyanate, isomeres and homologues			Flammable liquids Not classified Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhal.), Category 4, H332 Skin corrosion/irritation, Category 2, H315 Serious eye damage/eye irritation, Category 2, H319 Respiratory sensitisation, Category 1, H334 Skin sensitisation, Category 1, H317 Carcinogenicity, Category 2, H351 Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation, H335 Specific target organ toxicity – Repeated exposure, Category 2, H373
Reaction products of phosphoryl trichloride and 2- methyloxirane	CAS-No.: 13674-84-5	10 – 25	Acute toxicity (oral), Category 4, H302 Carcinogenicity, Category 2, H351 Hazardous to the aquatic environment – Chronic Hazard, Category 3, H412
Dimethyl ether (Propellant gas (Aerosol))	CAS-No.: 115-10-6	5 – 10	Flammable gases, Category 1A, H220 Gases under pressure : Compressed gas, H280 Hazardous to the aquatic environment – Acute Hazard Not classified
isobutane (Propellant gas (Aerosol))	CAS-No.: 75-28-5	5 – 10	Flammable gases, Category 1A, H220 Gases under pressure : Compressed gas, H280 Acute toxicity (inhalation:gas) Not classified
propane (Propellant gas (Aerosol))	CAS-No.: 74-98-6	2,5 - 5	Flammable gases, Category 1A, H220 Gases under pressure : Liquefied gas, H280

Full text of H-statements: see section 16



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

SECTION 4: First-aid measures

4.1. Description of necessary first-aid meas	sures
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
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. Wash contaminated clothing before reuse.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms/effects, acut	te and delayed
Symptoms/effects after inhalation	Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/effects after skin contact	Causes skin irritation.
Symptoms/effects after eye contact	Causes serious eye irritation.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable extinguishing media	
Suitable extinguishing media	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	Do not use a heavy water stream.
5.2. Specific hazards arising from the chemi	cal
Fire hazard	Extremely flammable aerosol.
Explosion hazard	Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire	Toxic fumes may be released. Vapours may form explosive mixture with air.
5.3. Special protective actions for fire-fighte	rs
Firefighting instructions	Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel	
Emergency procedures	Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area.
C.O. Environmental pressuitions	

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

Other information

Dispose of materials or solid residues at an authorized site. After curing, the product can be disposed of with household waste.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	
Precautions for safe handling	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. May form flammable/explosive vapour-air mixture. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray.
Hygiene measures	Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including an	ny incompatibilities
Storage conditions	Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.
Incompatible products	Strong bases. Strong acids.
Incompatible materials	Sources of ignition. Direct sunlight.
Heat and ignition sources	Keep away from heat and direct sunlight. Keep away from ignition sources.
Storage temperature	5 – 25 °C

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.
Other information	Do not eat, drink or smoke during use.

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

Personal protective equipment:

Protective clothing. Safety glasses. Gloves. Avoid all unnecessary exposure.

Hand protection

Wear suitable gloves tested to EN374. Suitable for short-term work or as a splash guard: Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact:

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0,35mm		
Disposable gloves	Butyl rubber	6 (> 480 minutes)	>0,35mm		
Eye protection		Chemical goggles or sa	fety glasses		
Skin and body protection		Wear suitable protective clothing			
Respiratory protection		Not necessary with sufficient ventilation. Ensure good ventilation of the work station. Open windows during application to ensure natural ventilation. If the occupational exposure limit i exceeded: Wear appropriate mask. (e.g. gas filter type A1-P2 according to EN 14387)			



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

Personal protective equipment symbol(s)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

9.1. Basic physical and chemical propertie	S
Physical state	Liquid
Appearance	Aerosol
Colour	Manila.
Odour	ether-like odour.
Odour threshold	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flammability	Non flammable.
Lower explosion limit	Not available
Upper explosion limit	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
рН	Not available
pH solution	Not available
Viscosity, kinematic (calculated value) (40 °C)	Not available
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	5100 hPa
Vapour pressure at 50°C	Not available
Density	1,049 g/cm ³
Relative density	Not available
Relative vapour density at 20°C	Not available
Solubility	Not available
Particle size	Not applicable
9.2 Data relevant with regard to physical h	azard classes (sunnlemental)

9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive properties % of flammable ingredients

Pressurised container: May burst if heated. 25 %

SECTIO	N 10: Stab	ility and	reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological informatio	n
11.1. Information on toxicological effects	
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
4,4'-diphenylmethanediisocyanate, isomeres a	and homologues (9016-87-9)
LD50 oral rat	> 10000 mg/kg (Rat, Literature study, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Literature study, Dermal)
LD50 dermal	9400 mg/kg
LC50 Inhalation - Rat	0,49 mg/l
propane (74-98-6)	
LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
isobutane (75-28-5)	
LC50 Inhalation - Rat [ppm]	> 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases))
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an
	allergic skin reaction.
Germ cell mutagenicity	Not classified
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
4,4'-diphenylmethanediisocyanate, isomeres a	and homologues (9016-87-9)
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
4,4'-diphenylmethanediisocyanate, isomeres a	and homologues (9016-87-9)
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750 B	2 / CF-I 750/B2-SV / CF ISO 750
Vaporizer	Aerosol



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

12.1. Toxicity	
Hazardous to the aquatic environment, short-term acute)	Not classified
lazardous to the aquatic environment, long-term chronic)	Not classified
4,4'-diphenylmethanediisocyanate, isomere	s and homologues (9016-87-9)
LC50 - Other aquatic organisms [1]	> 1000 mg/l (96 h, Literature study)
propane (74-98-6)	
EC50 96h - Algae [1]	12 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)
Dimethyl ether (115-10-6)	
LC50 - Fish [1]	> 4100 mg/l (NEN 6504: Water - Determination of toxicity with Poecilia reticulata, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, Lethal)
EC50 - Crustacea [1]	> 4400 mg/l (NEN 6501: Water - Determination of toxicity with Daphnia magna, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal)
EC50 96h - Algae [1]	154,9 mg/l (ECOSAR v1.00, Algae, QSAR, Estimated value)
isobutane (75-28-5)	
EC50 96h - Algae [1]	8,57 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR)
2.2. Persistence and degradability	
CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750	B2 / CF-I 750/B2-SV / CF ISO 750
Persistence and degradability	No additional information available
4,4'-diphenylmethanediisocyanate, isomere	s and homologues (9016-87-9)
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable in water.
propane (74-98-6)	
Not rapidly degradable	
Persistence and degradability	Readily biodegradable in water.
Dimethyl ether (115-10-6)	
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
isobutane (75-28-5)	
Not rapidly degradable	
Persistence and degradability	Readily biodegradable in water.
2.3. Bioaccumulative potential	
CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750	B2 / CF-I 750/B2-SV / CF ISO 750
Bioaccumulative potential	No additional information available
4,4'-diphenylmethanediisocyanate, isomere	s and homologues (9016-87-9)
BCF - Fish [1]	268,1 l/kg (BCFBAF v3.01, Estimated value, Fresh weight)
Partition coefficient n-octanol/water (Log Kow)	10,46 (Calculated, KOWWIN)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

propane (74-98-6)		
Partition coefficient n-octanol/water (Log Kow)	1,1 – 2,8 (Experimental value, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Dimethyl ether (115-10-6)		
Partition coefficient n-octanol/water (Log Kow)	0,1 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
isobutane (75-28-5)		
Partition coefficient n-octanol/water (Log Kow)	1,09 – 2,8 (Experimental value, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
12.4. Mobility in soil		
CF 125-50 / CF 125-5W50 / CF 126 / CF-I 750 B2 / CF-I 750/B2-SV / CF ISO 750		
Mobility in soil	No additional information available	
A A'-dinhanylmethanediisocyanate, isomeres and homologues (9016-87-9)		

o data available in the literature		
078 – 10,597 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
dsorbs into the soil.		
propane (74-98-6)		
o data available in the literature		
ot applicable (gas).		
Dimethyl ether (115-10-6)		
o data available in the literature		
ot applicable (gas).		
isobutane (75-28-5)		
o data available in the literature		
ot applicable (gas).		

Ozone

Other adverse effects

Not classified No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Dispose of
	contents/container to hazardous or special waste collection point, in accordance with local,
	regional, national and/or international regulation.
Ecological information	Avoid release to the environment.

SECTION 14: Transport information



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID n	umber			
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping	g name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document descri	iption			
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard o	lass(es)			
2.1	2.1	2.1	2.1	2.1
				*
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

14.6. Special precautions for user

Overland transport	
Classification code (ADR)	5F
Special provisions (ADR)	190, 327, 344, 625
Limited quantities (ADR)	11
Packing instructions (ADR)	P207, LP02
Mixed packing provisions (ADR)	MP9
Transport category (ADR)	2
Tunnel restriction code (ADR)	D
Transport by sea	
Special provisions (IMDG)	63, 190, 277, 327, 344, 959
Limited quantities (IMDG)	SP277
Packing instructions (IMDG)	P207, LP02
EmS-No. (Fire)	F-D
EmS-No. (Spillage)	S-U
Stowage category (IMDG)	None
MFAG-No	126
Air transport	
PCA packing instructions (IATA)	203
PCA max net quantity (IATA)	75kg
CAO packing instructions (IATA)	203
21/02/2025	EN (English)



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

Special provisions (IATA)	A145, A167, A802
Inland waterway transport	
Classification code (ADN)	5F
Special provisions (ADN)	19, 327, 344, 625
Limited quantities (ADN)	1 L
Excepted quantities (ADN)	E0
Equipment required (ADN)	PP, EX, A
Ventilation (ADN)	VE01, VE04
Number of blue cones/lights (ADN)	1
Rail transport	
Special provisions (RID)	190, 327, 344, 625
Limited quantities (RID)	1L
Packing instructions (RID)	P207, LP02

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other info	mation	
Issue date	2025/02/21	
Revision date	2025/02/21	
Supersedes	2021/11/22	

Section	Changed item	Change	Comments
3		Modified	

Abbreviations and acronyms

CAS-No. - Chemical Abstract Service number

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road ATE - Acute Toxicity Estimate

- BCF Bioconcentration factor
- BLV Biological limit value
- BOD Biochemical oxygen demand (BOD)
- CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
- DMEL Derived Minimal Effect level
- DNEL Derived-No Effect Level
- EC-No. European Community number
- EC50 Median effective concentration
- ED Endocrine disrupting properties
- EN European Standard
- IARC International Agency for Research on Cancer
- IATA International Air Transport Association
- IMDG International Maritime Dangerous Goods



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

IOELV - Indicative Occupational Exposure Limit Value LC50 - Median lethal concentration LD50 - Median lethal dose LOAEL - Lowest Observed Adverse Effect Level N.O.S. - Not Otherwise Specified NOAEC - No-Observed Adverse Effect Concentration NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration vPvB - Very Persistent and Very Bioaccumulative WGK - Water Hazard Class VOC - Volatile Organic Compounds SDS - Safety Data Sheet RID - Regulations concerning the International Carriage of Dangerous Goods by Rail REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 PNEC - Predicted No-Effect Concentration PBT - Persistent Bioaccumulative Toxic **OEL - Occupational Exposure Limit** OECD - Organisation for Economic Co-operation and Development COD - Chemical oxygen demand (COD) ThOD - Theoretical oxygen demand (ThOD) TRGS - Technical Rules for Hazardous Substances TLM - Median Tolerance Limit

STP -	Sewage	treatment	nlant
511 -	Sewaye	ueauneni	plant

Full text of H-statements:		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified	
Acute Tox. Not classified (Inhalation:gas)	Acute toxicity (inhalation:gas) Not classified	
Acute Tox. Not classified (Oral)	Acute toxicity (oral) Not classified	
Aquatic Acute Not classified	Hazardous to the aquatic environment – Acute Hazard Not classified	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Flam. Gas 1A	Flammable gases, Category 1A	
Flam. Liq. Not classified	Flammable liquids Not classified	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	
H220	Extremely flammable gas	
H222	Extremely flammable aerosol	
H229	Pressurised container: May burst if heated	
H280	Contains gas under pressure; may explode if heated	
H302	Harmful if swallowed	
H315	Causes skin irritation	



Safety Data Sheet

according to the United Nations GHS (Rev. 6, 2015)

Full text of H-statements:		
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H335	May cause respiratory irritation	
H351	Suspected of causing cancer	
H373	May cause damage to organs through prolonged or repeated exposure	
H412	Harmful 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.