

#### Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

lssue date: 30/10/2023 Revision date: 30/10/2023 Supersedes: 22/07/2014 Version: 3.1

#### **SECTION 1: Identification**

#### 1.1 Product identifier

Name Cleaning Spray 500 ml

Product form Mixture

Product code BU Direct Fastening

#### 1.2 Other means of identification

No additional information available

#### 1.3 Recommended use of the chemical and restrictions on use

Recommended use For professional use only

#### 1.4 Details of manufacturer or importer

Supplier

Hilti (New Zealand) Ltd.

Level 1, Building B 600 South Road Ellerslie

Auckland 1051 New Zealand T +64 9 571 9995

800 444 584 toll free - F +64 9526 7780

servicenz@hilti.com

Department issuing data specification sheet

Hilti AG

Feldkircherstraße 100

Schaan 9494 Liechtenstein T +423 234 2111

df-hse@hilti.com

#### 1.5. Emergency phone number

Emergency number GBK GmbH Global Regulatory Compliance

+49 (0)6132-84463

#### **SECTION 2: Hazard identification**

#### 2.1. Classification of the hazardous chemical

#### Classification according to the Environmental Protection Authority notices (EPA Hazardous Substances and New Organisms Act 1996)

Aerosol, Category 1 H222;H229
Skin corrosion/irritation, Category 2 H315
Specific target organ toxicity – Single exposure, Category 3, Narcosis H336
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS NZ labelling**

Hazard pictograms (GHS NZ)







Signal word (GHS NZ)

Contains

untains

Hazard statements (GHS NZ)

Danger

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (50 – 75 %)

H222 - Extremely flammable aerosol

H229 - Pressurised container: May burst if heated

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H411 - Toxic to aquatic life with long lasting effects

Prevention P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

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P251 - Do not pierce or burn, even after use. P261 - Avoid breathing spray, mist, vapours.

Response 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 which do not result in classification

No additional information available

#### **SECTION 3: Composition and information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to GHS NZ
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	CAS-No.: 92128-66-0	50 – 75	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Propane	CAS-No.: 74-98-6	10 – 12.5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Butane	CAS-No.: 106-97-8	5 – 10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
isobutane	CAS-No.: 75-28-5	5 – 10	Flam. Gas 1A, H220 Press. Gas (Comp.), H280
Carbon dioxide (Propellant gas (Aerosol))	CAS-No.: 124-38-9	< 2.5	Press. Gas (Liq.), H280

#### **SECTION 4: First-aid measures**

#### 4.1. Description of necessary first-aid measures

First-aid measures general Take off immediately all contaminated clothing. 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 Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical

advice/attention.

First-aid measures after eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion Get immediate medical advice/attention.

#### 4.2. Symptoms caused by exposure

Symptoms/effects after inhalation Shortness of breath.

Symptoms/effects after skin contact Irritation.

Symptoms/effects after eye contact Eye irritation.

#### 4.3. Medical attention and special treatment

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#### **SECTION 5: Fire-fighting measures**

#### 5.1. Extinguishing media

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

Unsuitable extinguishing media Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

Fire hazard Extremely flammable aerosol.

Explosion hazard Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

General measures Evacuate area. No flames, no sparks. Eliminate all sources of ignition.

Hazardous decomposition products in case of fire Formation of toxic gases is possible during heating or in case of fire. Thermal

decomposition generates : Carbon dioxide. Carbon monoxide.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions DO NOT fight fire when fire reaches explosives. Evacuate area.

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

General measures Evacuate area. No flames, no sparks. Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Emergency procedures Ventilate spillage area. Avoid breathing spray, vapours. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. Breathing apparatus.

Emergency procedures Ventilate area.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up Do not flush with water.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Additional hazards when processed Hazardous waste due to potential risk of explosion. Do not pierce or burn, even after use. Precautions for safe handling Do not eat, drink or smoke when using this product. Do not breathe vapours. Avoid contact

Do not eat, drink or smoke when using this product. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

Hygiene measures 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

Technical measures Proper grounding procedures to avoid static electricity should be followed.

Storage conditions Keep cool. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Keep in fireproof place.

Incompatible materials Heat sources. Direct sunlight.

Storage temperature 5-25 °C

Heat and ignition sources

Keep away from heat and direct sunlight.

Do not store with DX powder cartridges.

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#### SECTION 8: Exposure controls and personal protection

#### 8.1. Control parameters - exposure standards

Propane (74-98-6)		
New Zealand - Occupational Exposure Limits		
Local name	Propane	
Remark (NZ)	Simple asphyxiant – may present an explosion hazard	
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 13th Edition	
Butane (106-97-8)		
New Zealand - Occupational Exposure Limits		
Local name	Butane	
WES-TWA (OEL TWA) [1]	1900 mg/m³	
WES-TWA (OEL TWA) [2]	800 ppm	
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 13th Edition	
Carbon dioxide (124-38-9)		
New Zealand - Occupational Exposure Limits		
Local name	Carbon dioxide	
WES-TWA (OEL TWA) [1]	9000 mg/m³	
WES-TWA (OEL TWA) [2]	5000 ppm	
WES-STEL (OEL STEL)	54000 mg/m³	
WES-STEL (OEL STEL) [ppm]	30000 ppm	
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 13th Edition	

#### Exposure limit values for the other components

No additional information available

#### 8.2. Monitoring methods

No additional information available

#### 8.3. Engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

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

Hand protection

In case of repeated or prolonged contact wear gloves

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	, ·	No supplementary information available	EN ISO 374

Eye protection Chemical goggles or safety glasses. EN 170

Respiratory protection No respiratory protection needed under normal use conditions. In case of insufficient

ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Breathing apparatus with filter	A2/P3	If conc. in air > exposure limit	EN 143

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#### Personal protective equipment symbol(s)





Environmental exposure controls

Avoid release to the environment.

#### SECTION 9: Physical and chemical properties

Physical state Liquid
Appearance Aerosol.
Colour clear
Odour solvent-like

Odour threshold No additional information available

pH Not determined

Evaporation rate No additional information available

Relative evaporation rate (butylacetate=1)

No data available

Melting point / Freezing point Melting point: Not determined

Boiling point No data available

Flash point -12 °C (major component)
Auto-ignition temperature > 200 °C (major component)

Decomposition temperature Not determined

Flammability Extremely flammable aerosol.

Vapour pressure: 5500 hPa (20°C)

Relative density No additional information available

Density: 0.7 g/cm³ (20°C)

Relative density: Not determined

Solubility Practically not miscible.

Partition coefficient n-octanol/water (Log Pow)

Not determined Viscosity, dynamic

Not determined

Explosive properties Product is not explosive. May form flammable/explosive vapour-air mixture.

Explosive limits 0.6 vol %

10.9 vol %

Minimum ignition energy No data available VOC content 663 g/l (97,90 %)

#### **SECTION 10: Stability and reactivity**

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

Chemical stability

No additional information available
Possibility of hazardous reactions

No additional information available

Conditions to avoid Heat. Sparks. Open flame. Direct sunlight. Overheating.

Incompatible materials

No additional information available
Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

#### **SECTION 11: Toxicological information**

#### 11.1. Toxicity

Acute toxicity (oral)

Acute toxicity (dermal)

Acute toxicity (dermal)

Acute toxicity (inhalation)

Not classified (Based on available data, the classification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (92128-66-0)	
LD50 oral rat	> 5840 mg/kg bodyweight
LD50 dermal rat	> 2920 mg/kg bodyweight

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hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (92128-66-0)		
LC50 Inhalation - Rat (Vapours)	> 25.2 mg/l/4h	
Propane (74-98-6)		
LC50 Inhalation - Rat [ppm]	> 280000 ppm (literature)	
Butane (106-97-8)		
LC50 Inhalation - Rat [ppm]	276798.8 ppm	
isobutane (75-28-5)		
LC50 Inhalation - Rat [ppm]	> 18000 ppm	
Skin corrosion/irritation	Causes skin irritation. pH: Not determined	
Serious eye damage/irritation	Not classified (Based on available data, the classification criteria are not met)	
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met)	
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)	
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met)	
STOT-single exposure	May cause drowsiness or dizziness.	
hydrocarbons, C6-C7, n-alkanes, iso	palkanes, cyclics, < 5% n-hexane (92128-66-0)	
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)	
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met)	
Cleaning Spray 500 ml		
Vaporizer	Aerosol	

### **SECTION 12: Ecological information**

12.1. Ecotoxicity	
Hazardous to the aquatic environment, short–term (acute)	Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	Toxic to aquatic life with long lasting effects.
Soil toxicity	Not classified (Based on available data, the classification criteria are not met)
Terrestrial vertebrate toxicity	Not classified
Terrestrial invertebrate toxicity	Not classified

Cleaning Spray 500 ml		
Partition coefficient n-octanol/water (Log Pow)	Not determined	
hydrocarbons, C6-C7, n-alkanes, isoalkanes,	cyclics, < 5% n-hexane (92128-66-0)	
LC50 - Fish [1]	11.4 mg/l (96 h, Oncorhynchus mykiss, (OECD 203 method))	
EC50 - Crustacea [1]	3 mg/l (48 h, Daphnia magna, (OECD 202 method))	
ErC50 algae	≥ 10 mg/l (72 h, Pseudokirchneriella subcapitata, (OECD 201 method))	
NOEC (chronic)	0.17 (21 d, Daphnia magna, (OECD 211 method), Read-across)	
NOEC chronic fish	2.045 mg/l (Quantitative structure-activity relationship (QSAR))	
NOEC chronic crustacea	0.17 mg/l (21 d; Daphnia magna; (OECD 211 method))	
NOEC chronic algae	3 mg/l (72 h, Pseudokirchneriella subcapitata, (OECD 201 method))	
	> 2920 mg/kg bodyweight	
LD50 oral rat	> 5840 mg/kg bodyweight	

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Butane (106-97-8)	
LC50 - Fish [1]	24 – 148 mg/l (Quantitative structure-activity relationship (QSAR))
EC50 - Crustacea [1]	7 – 70 mg/l (Quantitative structure-activity relationship (QSAR))
EC50 72h - Algae [1]	7 – 17 mg/l (Quantitative structure-activity relationship (QSAR))
isobutane (75-28-5)	
LC50 - Fish [1]	24.11 – 147.54 mg/l (Quantitative structure-activity relationship (QSAR))
EC50 - Crustacea [1]	7.02 – 69.43 mg/l (Quantitative structure-activity relationship (QSAR))
ErC50 algae	7.71 – 16.5 mg/l (Quantitative structure-activity relationship (QSAR))
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 (20 °C)
Carbon dioxide (124-38-9)	
LC50 - Fish [1]	35 mg/l (96 h; Salmo gairdneri; Literature data)
Partition coefficient n-octanol/water (Log Pow)	0.83 (Measured)

#### 12.2. Persistence and degradability

Cleaning Spray 500 ml			
Cleaning Spray 500 mil			
Persistence and degradability	No additional information available		
hydrocarbons, C6-C7, n-alkanes, isoalkanes,	hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (92128-66-0)		
Persistence and degradability	Readily biodegradable.		
Biodegradation	98 % (28 d; (OECD 301F method))		
Propane (74-98-6)			
Not rapidly degradable			
Persistence and degradability	Readily biodegradable in water.		
Butane (106-97-8)			
Not rapidly degradable			
isobutane (75-28-5)			
Not rapidly degradable			
Persistence and degradability	Readily biodegradable.		
Carbon dioxide (124-38-9)			
Not rapidly degradable			
Persistence and degradability	Not applicable.		

### 12.3. Bioaccumulative potential

Cleaning Spray 500 ml	
Partition coefficient n-octanol/water (Log Pow)	Not determined
Bioaccumulative potential	No additional information available
Propane (74-98-6)	
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).
isobutane (75-28-5)	
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 (20 °C)
Bioaccumulative potential	Bioaccumulation unlikely.

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Carbon dioxide (124-38-9)	
Partition coefficient n-octanol/water (Log Pow)	0.83 (Measured)

#### 12.4. Mobility in soil

Cleaning Spray 500 ml		
Mobility in soil	No additional information available	
Partition coefficient n-octanol/water (Log Pow)	Not determined	
isobutane (75-28-5)		
Partition coefficient n-octanol/water (Log Pow)	1.09 – 2.8 (20 °C)	
Carbon dioxide (124-38-9)		
Partition coefficient n-octanol/water (Log Pow)	0.83 (Measured)	

#### 12.5. Other adverse effects

Ozone

Not classified (Based on available data, the classification criteria are not met)

Other adverse effects No additional information available

### **SECTION 13: Disposal considerations**

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

Container under pressure. Do not drill or burn even after use.

Additional information Flammable vapours may accumulate in the container.

#### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
UN 1950	UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name			
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS
Transport document description			
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1	UN 1950 AEROSOLS, 2.1
14.3. Transport hazard class(es)			
2.1	2.1	2.1	2.1
		<b>1 1 2 2 3 3 3 3 3 3 3 3 3 3</b>	***************************************
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes

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ADR IMDG IATA RID

Environmentally hazardous substances derogation applies (quantity of liquids  $\leq 5$  litres or net mass of solids  $\leq 5$  kg). The environmentally hazardous substance mark is therefore not required, as stated in the ADR regulation, section 5.2.1.8.1.

No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Classification code (ADR) 5F

Special provisions (ADR) 190, 327, 344, 625

Limited quantities (ADR) 11
Excepted quantities (ADR) E0

Packing instructions (ADR) P207, LP200 Special packing provisions (ADR) PP87, RR6, L2

Mixed packing provisions (ADR) MP9
Transport category (ADR) 2
Special provisions for carriage - Packages (ADR) V14
Special provisions for carriage - Loading, unloading CV9, CV12

and handling (ADR)

Special provisions for carriage - Operation (ADR) S2
Tunnel restriction code (ADR) D

#### Transport by sea

Special provisions (IMDG) 63, 190, 277, 327, 344, 381, 959

Limited quantities (IMDG) SP277 Excepted quantities (IMDG) E0 Packing instructions (IMDG) P207, LP200 Special packing provisions (IMDG) PP87, L2 EmS-No. (Fire) F-D EmS-No. (Spillage) S-U Stowage category (IMDG) None Stowage and handling (IMDG) SW1, SW22 Segregation (IMDG) **SG69** MFAG-No 126

#### Air transport

PCA Excepted quantities (IATA) E0
PCA Limited quantities (IATA) Y203
PCA limited quantity max net quantity (IATA) 30kgG
PCA packing instructions (IATA) 203
PCA max net quantity (IATA) 75kg
CAO packing instructions (IATA) 203
CAO max net quantity (IATA) 150kg

Special provisions (IATA) A145, A167, A802

ERG code (IATA) 10L

#### Rail transport

Classification code (RID) 58

Special provisions (RID) 190, 327, 344, 625

Limited quantities (RID) 1L Excepted quantities (RID) E0

Packing instructions (RID) P207, LP200 Special packing provisions (RID) PP87, RR6, L2

Mixed packing provisions (RID) MP9
Transport category (RID) 2
Special provisions for carriage – Packages (RID) W14

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Special provisions for carriage - Loading, unloading CW9, CW12

and handling (RID)

Colis express (express parcels) (RID) CE2 Hazard identification number (RID) 23

#### 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

Butane (106-97-8)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR000989

Carbon dioxide (124-38-9)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR001018

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

 Issue date
 30/10/2023

 Revision date
 30/10/2023

 Supersedes
 22/07/2014

#### Indication of changes:

General.

Indication of changes			
Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	
9	Physical and chemical hazards	Modified	
11	Toxicological information	Modified	
12	Ecotoxicological information	Modified	

Data sources

GHS New Zealand (HSNO). European Chemicals Agency, http://echa.europa.eu/. manufacturer.

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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

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

DNEL - Derived-No Effect Level

EC50 - Median effective concentration

ED - Endocrine disrupting properties

EC-No. - European Community number

EN - European Standard

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

IOELV - Indicative Occupational Exposure Limit Value

LC50 - Median lethal concentration

LD50 - Median lethal dose

NOEC - No-Observed Effect Concentration

OECD - Organisation for Economic Co-operation and Development

N.O.S. - Not Otherwise Specified

OEL - Occupational Exposure Limit

PBT - Persistent Bioaccumulative Toxic

PNEC - Predicted No-Effect Concentration

 $\label{eq:REACH-Registration} \textbf{REACH-Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation}$ 

(EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety Data Sheet

STP - Sewage treatment plant

TLM - Median Tolerance Limit

TRGS - Technical Rules for Hazardous Substances

VOC - Volatile Organic Compounds

WGK - Water Hazard Class

vPvB - Very Persistent and Very Bioaccumulative

NOAEL - No-Observed Adverse Effect Level

NOAEC - No-Observed Adverse Effect Concentration LOAEL - Lowest Observed Adverse Effect Level

Full text of H-statements		
Aerosol 1	Aerosol, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Flam. Gas 1A	Flammable gases, Category 1A	
Flam. Liq. 2	Flammable liquids, Category 2	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	
H220	Extremely flammable gas	
H225	Highly flammable liquid and vapour.	
H280	Contains gas under pressure; may explode if heated	

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Full text of H-statements	
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H411	Toxic to aquatic life with long lasting effects

#### SDS NZ 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.

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