Cleaning Spray 150 ml

Safety Data Sheet

according to the Hazardous Substance SDS Notice 2017 (EPA)

Issue date: 13/06/2024 Revision date: 13/06/2024 Supersedes: 30/10/2023 Version: 4.2

SECTION 1: Identification

1.1 Product identifier

Name	Cleaning Spray 150 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
product.compliance-direct.fastening@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
Serious eye damage/eye irritation, Category 2	H319
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)	Danger
Contains	hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane (50 – 75 %); Acetone (25 – 50 %); 1-methoxypropan-2-ol (5 – 10 %)
Hazard statements (GHS NZ)	H222 - Extremely flammable aerosol H229 - Pressurised container: May burst if heated H315 - Causes skin irritation H319 - Causes serious eye 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. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P261 - Avoid breathing dust, fume, gas, mist, spray, 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.
Storage	P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F, 50 °C.

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
Acetone	CAS-No.: 67-64-1	25 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
1-methoxypropan-2-ol	CAS-No.: 107-98-2	5 – 10	Flam. Liq. 3, H226 STOT SE 3, H336
Carbon dioxide (Propellant gas (Aerosol))	CAS-No.: 124-38-9	5 – 10	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

Other medical advice or treatment	Treat symptomatically.

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 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.
Information on mixed storage	Do not store with DX powder cartridges.

SECTION 8: Exposure controls and personal protection

8.1. Control parameters - exposure standards

Acetone (67-64-1)	
New Zealand - Occupational Exposure Limits	
Local name	Acetone
WES-TWA (OEL TWA)	1185 mg/m³
	500 ppm
WES-STEL (OEL STEL)	2375 mg/m³
	1000 ppm
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition
New Zealand - Biological Exposure Indices	
Local name	Acetone
BEI	50 mg/l Parameter: Acetone - Medium: Urine - Sampling time: End of shift
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th Edition

Carbon dioxide (124-38-9)	
New Zealand - Occupational Exposure Limits	
Local name	Carbon dioxide
WES-TWA (OEL TWA)	9000 mg/m³
	5000 ppm
WES-STEL (OEL STEL)	54000 mg/m³
	30000 ppm
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 14th 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

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	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

Personal protective equipment symbol(s)

Environmental exposure controls	Avoid release to the environment.
Other information	No additional information available.

SECTION 9: Physical and chemical properties

Physical state	Liquid
Appearance	Aerosol.
Colour	clear
Odour	solvent-like
Odour threshold	No additional information available
pH	No additional information available
Evaporation rate	No additional information available
Relative evaporation rate (butylacetate=1)	No data available
Melting point / Freezing point	No additional information available
Boiling point	No data available
Flash point	< 21 °C
Auto-ignition temperature	> 200 °C
Flammability	Extremely flammable aerosol.
Vapour pressure	Vapour pressure: 5500 hPa (20 °C)
Relative density	No additional information available
Density	Density: 0.7 g/cm³
Solubility	No additional information available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, dynamic	No data available
Explosive properties	Product is not explosive. May form flammable/explosive vapour-air mixture.
Explosive limits	0.6 (<) vol % 13 vol %
Minimum ignition energy	No data available
VOC content	747 g/l (99,5 %)

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)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	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
LC50 Inhalation - Rat (Vapours)	> 25.2 mg/l/4h

Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg bodyweight
LD50 oral	6667 mg/kg
LD50 dermal rat	> 7400 mg/kg bodyweight
LD50 dermal	20000 mg/kg
LC50 Inhalation - Rat (Vapours)	76 mg/l/4h

1-methoxypropan-2-ol (107-98-2)	
LD50 oral rat	4016 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye irritation.
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, isoalkanes, cyclics, < 5% n-hexane (92128-66-0)	
STOT-single exposure	May cause drowsiness or dizziness.

Acetone (67-64-1)	
STOT-single exposure	May cause drowsiness or dizziness.

1-methoxypropan-2-ol (107-98-2)	
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)

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 (Based on available data, the classification criteria are not met)
Terrestrial invertebrate toxicity	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)	
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

Acetone (67-64-1)	
LC50 - Fish [1]	5540 mg/l (96 h; Oncorhynchus mykiss)
EC50 - Crustacea [1]	8800 mg/l (48 h; Daphnia pulex)
NOEC chronic crustacea	2212 mg/l (28 d; Daphnia magna)
Bioconcentration factor (BCF REACH)	3 (calculated value)
	> 7400 mg/kg bodyweight
LD50 oral rat	5800 mg/kg bodyweight

1-methoxypropan-2-ol (107-98-2)	
LC50 - Fish [1]	6812 mg/l (96 h; Leuciscus idus; DIN 38 412, part L15)
EC50 - Crustacea [1]	> 100 mg/l (48 h; Daphnia magna)
Partition coefficient n-octanol/water (Log Kow)	0.37 (20 °C)
	> 2000 mg/kg bodyweight
LD50 oral rat	4016 mg/kg bodyweight

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 150 ml	
Persistence and degradability	No additional information available

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))

Acetone (67-64-1)	
Not rapidly degradable	
Persistence and degradability	Readily biodegradable.
Biodegradation	90.9 % (28 d; (OECD 301B method))

1-methoxypropan-2-ol (107-98-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	96 % (28 d; (OECD 301E method))

Carbon dioxide (124-38-9)	
Persistence and degradability	Not applicable.

12.3. Bioaccumulative potential

Cleaning Spray 150 ml	
Bioaccumulative potential	No additional information available

Acetone (67-64-1)	
Bioconcentration factor (BCF REACH)	3 (calculated value)
Bioaccumulative potential	Bioaccumulation unlikely.

1-methoxypropan-2-ol (107-98-2)	
Partition coefficient n-octanol/water (Log Kow)	0.37 (20 °C)

1-methoxypropan-2-ol (107-98-2)	
Bioaccumulative potential	Bioaccumulation unlikely.

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

12.4. Mobility in soil

Cleaning Spray 150 ml	
Mobility in soil	No additional information available

Acetone (67-64-1)	
Surface tension	23.3 mN/m (20 °C)

1-methoxypropan-2-ol (107-98-2)	
Surface tension	70.7 mN/m (1 g/L; 20°C)
Partition coefficient n-octanol/water (Log Kow)	0.37 (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
			
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable

ADR	IMDG	IATA	RID
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
Environmentally hazardous substances derogation applies (quantity of liquids ≤ 5 litres or net mass of solids ≤ 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)	1l
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 and handling (ADR)	CV9, CV12
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)	5F
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
Special provisions for carriage - Loading, unloading and handling (RID)	CW9, CW12
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

Acetone (67-64-1)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR001070

1-methoxypropan-2-ol (107-98-2)	
Hazardous Substances and New Organisms Act	
HSNO Approval Number	HSR001187

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	13/06/2024
Revision date	13/06/2024
Supersedes	30/10/2023

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
3	Composition/information on ingredients	Modified	

Data sources: European Chemicals Agency, http://echa.europa.eu/. manufacturer.

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
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
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour
H280	Contains gas under pressure; may explode if heated

Full text of H-statements	
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye 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.