

Safety Data Sheet according to SS 586 Part 3 (2014) Issue date: 13.12.2022

Revision date: 13.12.2022

Supersedes: 10.04.2017

Version: 4.0

SECTION 1: Identification 1.1. Product identifier		
Name	Cleaning Spray	150 ml
Product code	BU Direct Faster	
1.2. Other means of identification		
No additional information available		
1.3. Recommended use of the chemical and	restrictions on u	JSE
Recommended use	For professional	use only
1.4. Supplier's details		
Supplier Hilti Far East Private Ltd. No 20 Harbour Drive, #06-06/08 PSA Vista Singapore T +65 6777 7887 - F +65 6777 3057 sg-customerservice@hilti.com	e Singapur 117612	Department issuing data specification sheet Hilti Entwicklungsgesellschaft mbH Hiltistrasse 6 Kaufering Deutschland 86916 T +49 8191 906310 - F +49 8191 90176310 df-hse@hilti.com
.5. Emergency phone number	O shuusin si shuu	Ta il ala ciada a la formationa a structure - Oth Osmica
Emergency number	Schweizerisches +41 44 251 51 5 +65 6777 7887	s Toxikologisches Informationszentrum – 24h Service 1 (international)
Health hazards	Serious eye dam Specific target o	ritation, Category 2 nage/eye irritation, Category 2 rgan toxicity – Single exposure, Category 3
Environmental hazards		e aquatic environment – Chronic Hazard, Category 2
2.2. GHS label elements including precaution	nary statements	
Hazard pictograms (GHS SG)		! ***
Signal word (GHS SG)	Danger	• •
Hazard statements (GHS SG) H222 : Extremely flammable aerosol. H315 : Causes skin irritation. H319 : Causes serious eye irritation.		
H336 : May cause drowsiness or dizziness. H411 : Toxic to aquatic life with long lasting effects.		
H411 : Toxic to aquatic life with long lasting effects.		
H411 : Toxic to aquatic life with long lasting effects. Precautionary statements Prevention	n source.	er ignition sources. No smoking. heat, sparks, open flames, hot surfaces

Storage

P410+P412 : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.



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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

3.2. Mixtures

Name	Synonyms	Concentration (%)	Formula	Product identifier
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane	-	50 – 75	-	CAS-No.: 92128-66-0 EC-No.: 921-024-6
Acetone	-	25 – 50	-	CAS-No.: 67-64-1 EC-No.: 200-662-2 EC Index-No.: 606- 001-00-8
1-methoxypropan-2-ol	-	5 – 10	-	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603- 064-00-3

SECTION 4: First-aid measures

First-aid measures general	Take off immediately all contaminated clothing. Call a poison center or a doctor if you fee unwell.
Inhalation	Remove person to fresh air and keep comfortable for breathing.
Skin contact	Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
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.
Ingestion	Get immediate medical advice/attention.
4.2. Most important symptoms/effects,	acute and delayed
Symptoms/effects after inhalation	Shortness of breath.
Symptoms/effects after skin contact	Irritation.
Symptoms/effects after eye contact	Eye irritation.

4.3. Indication of immediate medical attention and special treatment needed

Other medical advice or treatment

Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable 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 chemic	cal
Fire hazard	Extremely flammable aerosol.
Explosion hazard	Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of
	burns and injuries.
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.



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5.3. Special protective actions for fire fighters		
Precautionary measures fire	Fight fire remotely due to the risk of explosion.	
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 er	ntry to sewers and public waters.	

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	Do not flush with water.	

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

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 an	ny 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.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters/Occupational exposure limits

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering control measures

SG - en

Appropriate engineering controls



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8.4. Personal protection

Hand protection In case of repeated or prolonged contact wear gloves						
Туре	Material	Permeation Thickness (mm) Penetration St		Standard		
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	No supplement information av	2	EN ISO 374
Eye protection Chemical goggles or safety glasses. EN 166. EN 170 Respiratory protection No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment					of insufficient	
Device		Filter type	Co	Condition		ard
Breathing apparatus with filter		A2/P3	lf o	If conc. in air > exposure limit		3

Personal protective equipment symbol(s)



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and cher	nical properties
Physical state	Liquid
Appearance	Aerosol.
Colour	clear
Odour	solvent-like
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	< 21 °C
Auto-ignition temperature	> 200 °C
Decomposition temperature	No data available
Flammability	Extremely flammable aerosol.
Vapour pressure	5500 hPa (20 °C)
Relative vapour density at 20°C	No data available
Relative density	No data available
Density	0.7 g/cm ³
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Partition coefficient n-octanol/water (Log Kow)	No data available
Viscosity, dynamic	No data available
Explosive properties	Product is not explosive. May form flammable/explosive vapour-air mixture.
Oxidising properties	No data available
Explosive limits	0.6 – 13 vol %
9.2. Other information	

VOC content

747 g/l (99,5 %)

SECTION 10: Stability and reactivity

10.1. Reactivity

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



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10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Acute 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, isoalka	nes, 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 dermal rat	> 7400 mg/kg bodyweight
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, isoalka	nes, 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)



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Cleaning Spray 150 ml	
Vaporizer	Aerosol
Density	0.7 g/cm ³

SECTION 12: Ecological information

12.1. Toxicity			
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. (Based on available data, the classificatio 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), <tx:kft_read-across>)</tx:kft_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))		
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)		
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)		
12.2. Persistence and degradability			
Cleaning Spray 150 ml			
Persistence and degradability	No additional information available		
hydrocarbons, C6-C7, n-alkanes, isoalkanes	s, cyclics, < 5% n-hexane (92128-66-0)		
Persistence and degradability	Readily biodegradable.		
Biodegradation	98 % (28 d; (OECD 301F method))		
Acetone (67-64-1)			
Persistence and degradability	Readily biodegradable.		
Biodegradation	90.9 % (28 d; (OECD 301B method))		

Readily biodegradable.

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

Persistence and degradability



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1-methoxypropan-2-ol (107-98-2)				
Biodegradation	96 % (28 d; (OECD 301E method))			
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)			
Bioaccumulative potential	Bioaccumulation unlikely.			
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)			
12.5. Other adverse effects				
Ozone	Not classified			
Other adverse effects	No additional information available			

SECTION 13: Disposal considerations

Waste treatment methods Product/Packaging disposal recommendations Additional information Dispose of contents/container in accordance with licensed collector's sorting instructions. Container under pressure. Do not drill or burn even after use. Flammable vapours may accumulate in the container.

SECTION 14: Transport information

n accordance with ADR / IMDG / IATA / RID					
IMDG	ΙΑΤΑ	RID			
14.1. UN number or ID number					
UN 1950 UN 1950 UN 1950 UN 1950					
14.2. UN proper shipping name					
AEROSOLS	Aerosols, flammable	AEROSOLS			
Transport document description					
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			
	IMDG UN 1950 AEROSOLS UN 1950 AEROSOLS, 2.1	IMDG IATA UN 1950 UN 1950 AEROSOLS Aerosols, flammable UN 1950 AEROSOLS, 2.1 UN 1950 Aerosols, flammable, 2.1			



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ADR	IMDG	IATA	RID	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environme Yes Marine pollutant: Yes	ent: Dangerous for the environment: Yes	Dangerous for the environment: Yes	
Environmentally hazardous substant hazardous substance mark is theref		of liquids \leq 5 litres or net mass of solids \approx ADR regulation, section 5.2.1.8.1.	≤ 5 kg). The environmentally	
No supplementary information availa	able			
14.6. Special precautions for u	ser			
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (ADR) Mixed packing provisions (ADR) Transport category (ADR) Special provisions for carriage - Pack Special provisions for carriage - Pack Special provisions for carriage - Oper Tunnel restriction code (ADR) Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Excepted quantities (IMDG) Special packing provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage and handling (IMDG) Segregation (IMDG) MFAG-No	ing, unloading CV9, CV12 ration (ADR) S2 D) L2 , 327, 344, 381, 959		
Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA)	203 75kg 203 150kg A145, A167,	A802		
ERG code (IATA) 13/12/2022 SG - en	10L		8/10	



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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	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

Regulation		Component / Mixture
Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations	Petroleum and Flammable Materials	Acetone; Propylene glycol monomethyl ether
Misuse of Drugs Act	Controlled Substances Useful for Manufacturing Controlled Drugs - Part II	Acetone

15.2. International regulations

No additional information available

15.3 Chemical inventory status

No additional information available

SECTION 16: Other information			
Issue date	13/12/2022		
Revision date	13/12/2022		
Data sources	Source: 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		



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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

Indication of changes				
Section	Changed item	Change	Comments	
	General	Modified		
11	Toxicological information	Modified		
12	Ecotoxicological information	Modified		
15	Regulatory information	Added		
3	Composition/information on ingredients	Modified		
8	Personal protective equipment	Modified		
9	Physical and chemical properties	Modified		

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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.