

DX-Cartridge Clean-Tec Safety Data Sheet

according to the Hazardous Substances and New Organisms Act (1996) Issue date: 04/11/2021 Revision date: 04/11/2021

Supersedes: 11/06/2018

Version: 1.2

1.1 Product identifie	er				
Trade name		DX-Cartridge Clean-Tec			
Product form		Article			
Product code		BU Direct Fastening			
1.2 Other means of	identification				
No additional information ava	ilable				
1.3 Relevant identif	ied uses of the subs	stance or mixture and u	ses advised against		
Recommended use		CARTRIDGES FOR TOOLS, BLANK			
Restrictions on use		For professional use only			
1.4 Supplier's detail	ls				
Supplier Hilti (New Zealand) Ltd. Level 1, Building B 600 Sou Ellerslie 1051 Auckland - New Zeala T +64 9 571 9995 , 800 444 584 toll free - F +6 servicenz@hilti.com	ith Road ind	Department issuing data a Hilti Entwicklungsgesellscha Hiltistraße 6 86916 Kaufering - Deutschl T +49 8191 906876 anchor.hse@hilti.com	aft mbH		
1.5. Emergency pho	ne number				
Emergency number	:	Schweizerisches Toxikologi	sches Informationszentrum – 24h	Service	
		+41 44 251 51 51 (internatio	onal)		
		+64 9 571 9995 ; 800 444 584 toll free			
Country	Organisation/Compa	iny	Address	Emergency number	
Country New Zealand	Organisation/Compa National Poisons Cent		Address	Emergency number 0800 623 000	
	National Poisons Cent		Address		
New Zealand SECTION 2: Hazards 2.1. Classification of	National Poisons Cent	nixture	Address		
New Zealand SECTION 2: Hazards 2.1. Classification of HSNO Approval Number	National Poisons Cent	nixture HSR100249		0800 623 000	
New Zealand SECTION 2: Hazards 2.1. Classification of	National Poisons Cent	tre nixture HSR100249 Category of the pyrotech	Address nic article: other pyrotechnic artic tion Certificate No. 0589.PYR.38	0800 623 000	
New Zealand SECTION 2: Hazards 2.1. Classification of HSNO Approval Number	National Poisons Cent	nixture HSR100249 Category of the pyrotech (BAM EC-Type-Examina	nic article: other pyrotechnic artic	0800 623 000	
New Zealand SECTION 2: Hazards 2.1. Classification of HSNO Approval Number hazardous nature	National Poisons Cent	nixture HSR100249 Category of the pyrotech (BAM EC-Type-Examina respectively)	nic article: other pyrotechnic artic	0800 623 000	
New Zealand SECTION 2: Hazards 2.1. Classification of HSNO Approval Number hazardous nature 1.4	National Poisons Cent	nixture HSR100249 Category of the pyrotech (BAM EC-Type-Examina respectively)	nic article: other pyrotechnic artic	0800 623 000	
New Zealand SECTION 2: Hazards 2.1. Classification of HSNO Approval Number hazardous nature 1.4 2.2. Label elements	National Poisons Cent s identification f the substance or m	tre hixture HSR100249 Category of the pyrotech (BAM EC-Type-Examina respectively) Explosives, Division 1.4	nic article: other pyrotechnic artic	0800 623 000	
New Zealand SECTION 2: Hazards 2.1. Classification of HSNO Approval Number hazardous nature 1.4 2.2. Label elements GHS NZ labelling	National Poisons Cent s identification f the substance or m	nixture HSR100249 Category of the pyrotech (BAM EC-Type-Examina respectively)	nic article: other pyrotechnic artic	0800 623 000	



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Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P250 - Do not subject to shock, friction, grinding. P280 - Wear eye protection.
Response	P372 - Explosion risk in case of fire. P370+P380+P375 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Storage	P401 - Store in accordance with local regulations on explosives.
2.3. Other hazards not contributir	ng to the classification
Other hazarda which do not recult in	This article contains bezardous substances or proparations not intended to be released under

Other hazards which do not result in classification

This article contains hazardous substances or preparations not intended to be released under normal or reasonably foreseeable conditions of use, The dismantling of the article is prohibited!,Keep away from ignition sources (including static discharges)

SECTION 3: Composition and information of the ingredients of the hazardous chemical

3.1.SubstancesNot applicable			
3.2. Mixtures			
Comments	max. net explosives weight each cartridge in mg: Caliber 6.8/11 (cal .27 short) white: 130; brown: 140; green: 160; yellow: 180; red: 230; titanium: 230; black: 260 Caliber 6.8/18 (cal .27 long) green: 190; yellow: 220; blue: 300; red: 330; black: 410.		
	Within the cartridges the explosive ingredients (gun powder and priming composition) are hermetically separated from the environment. They will be only opened with effort and under destruction of the article. Propellant powder: glycerol trinitrate containing nitrocellulose powder Mass per cartridge: essentially dependent on the required power (100-400 mg) Priming composition: SINTOX (initiating explosive) Mass per cartridge: 20,9 mg in the mean.		
	Exposed propellant powder outside a cartridge is harmful if swallowed and highly flammable; without tamping no explosion risk. Packed safety cartridges don't represent a significant risk. In case of reaction no dangerous fragments or projectiles will be formed. Mechanical or thermal attempts to expose the primer composition lead to an immediate reaction of the dangerous ingredients.		

Name	Product identifier	Conc.	Classification according to GHS NZ
cellulose nitrate	(CAS-No.) 9004-70-0	5 - 17	1.1: Expl. 1.1, H201
glycerol trinitrate	(CAS-No.) 55-63-0	2-7	1.1: Expl. 1.1, H201 6.1B: Acute Tox. 2 (Oral), H300 6.1A: Acute Tox. 1 (Dermal), H310 6.1B: Acute Tox. 2 (Inhalation:dust,mist), H330 6.9B: STOT RE 2, H373 9.1D: Aquatic Acute 2, H401 9.1B: Aquatic Acute 2, H401 9.3C: Ecotoxicity to terrestrial vertebrates C, H433
diphenylamine	(CAS-No.) 122-39-4	0.1 – 1	6.1C: Acute Tox. 3 (Oral), H301 6.1C: Acute Tox. 3 (Dermal), H311 6.1C: Acute Tox. 3 (Inhalation:dust,mist), H331 6.9B: STOT RE 2, H373 9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410
copper	(CAS-No.) 7440-50-8	0 – 1	9.1A: Aquatic Acute 1, H400 9.1C: Aquatic Chronic 3, H412
zinc	(CAS-No.) 7440-66-6	0 – 1	9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410



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Name	Product identifier	Conc.	Classification according to GHS NZ
tetrazene	(CAS-No.) 109-27-3	0 – 1	6.4A: Eye Irrit. 2, H319 9.1A: Aquatic Acute 1, H400 9.1A: Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1.	Description of first aid measu	res	
First-a	aid measures general	In all cases of doubt, or when symptoms persist, seek medical attention.	
First-a	aid measures after inhalation	Allow affected person to breathe fresh air. Allow the victim to rest.	
First-a	aid measures after skin contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.	
First-a	aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.	
First-a	aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.	
4.2. Most important symptoms and effects, both acute and delayed			

Not expected to present a significant hazard under anticipated conditions of normal use.

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

No additional information available

Symptoms/effects

5.1.	Extinguishing media	
Suita	ble extinguishing media	Dry powder. Water spray.
Unsu	itable extinguishing media	Do not use a heavy water stream.
5.2.	Special hazards arising from the	substance or mixture
Gene	ral measures	Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
Haza fire	rdous decomposition products in case of	Carbon monoxide. Carbon dioxide (CO2). Nitrous gasses.
5.3.	Special protective equipment and	precautions for fire-fighters
Firefi	ghting 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.
Droto	ction 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		Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.	
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.	



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6.2. Environmental precautions

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

6.3.	Methods and material for containment and cleaning up		
Method	ds for cleaning up	Pick up loose cartridges only by hand. Exposed ingredients must be swept up carefully and phlegmatized in a water container, labelled according the regulations, wipe down with water the contamined area. Store away from other materials.	

SECTION 7: Handling and storage

7.1. Precautions for safe handling	g		
Additional hazards when processed	Hazardous waste due to potential risk of explosion.		
Precautions for safe handling	Do not subject to grinding,shock, friction. Take precautionary measures against static discharge. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.		
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			
Storage conditions	Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Store in a dry place.		
Incompatible products	Strong bases. Strong acids.		
Storage temperature	5 – 25 °C		
Information on mixed storage	Keep away from : Ignition sources. Do not store with: Store according to local legislation.		
Storage area	Store away from heat.		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DX-Cartridge Clean-Tec			
New Zealand - Occupational Exposure Limits			
Local name	Copper and its inorganic compounds, as Cu		
WES-TWA (OEL TWA) [1]	0.01 mg/m ³ r (The value for respirable dust)		
WES-TWA (OEL TWA) [2]	0.05 ppm		
Remark (NZ)	dsen (Dermal sensitiser)		
Regulatory reference	Workplace Exposure Standards and Biological Exposure Indices, 12th Edition		

Exposure limit values for the other components

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

No additional information available

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

Eye protection

Safety glasses



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Skin and body protection

When using cartridge operated tools, sufficient ear protection must be worn.

Personal protective equipment symbol(s)



SECTION 9: Physical and chemical properties

Physical state	Solid
Appearance	No data available
Colour	No data available
Odour	No data available
Odour threshold	No data available
pH	No data available
Evaporation rate	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point / Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Density	No data available
Solubility	No data available
Partition coefficient n-octanol/water (Log Pow)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Fire or projection hazard.
Explosive limits	No data available
Minimum ignition energy	No data available
Additional information	Not applicable. Article

SECTION 10: Stability and reactivity

Reactivity	No additional information available
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Not established.
Conditions to avoid	Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating.
Incompatible materials	Strong acids. Strong bases.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide. Nitrogen oxides. Metal oxides. Thermal decomposition can lead to the release of irritating gases and vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)

Not classified



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Acute toxicity (dermal)	Not classified		
Acute toxicity (inhalation)	Not classified		
glycerol trinitrate (55-63-0)			
LD50 oral rat	685 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral, 14 day(s))		
LD50 oral	685 mg/kg		
LD50 dermal rat	 > 9560 mg/kg bodyweight (Equivalent or similar to OECD 402, Rat, Male / female, Experimental value, Dermal) 		
diphenylamine (122-39-4)			
LD50 oral rat	> 800 mg/kg bodyweight (Rat, Male, Experimental value, Oral)		
zinc (7440-66-6)			
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))		
Skin corrosion/irritation	Not classified		
Serious eye damage/irritation	Not classified		
Respiratory or skin sensitisation	Not classified		
Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity	Not classified		
STOT-single exposure	Not classified		
STOT-repeated exposure	Not classified		
glycerol trinitrate (55-63-0)			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
diphenylamine (122-39-4)			
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not classified		
DX-Cartridge Clean-Tec			
Viscosity, kinematic			
Potential adverse human health effects and symptoms	No additional information available. No harmful effects are to be expected if used properly. The contained ingredients can be harmful, but they are hermetically enclosed in the article and can not be released.		

The dismantling of the article is prohibited.

12.1. Toxicity		
Ecology - general	No harmful effects are to be expected if used properly. The contained ingredients can be harmful, but they are hermetically enclosed in the article a can not be released. The dismantling of the article is prohibited.	
Hazardous to the aquatic environment, short- term (acute)	Not classified	
Hazardous to the aquatic environment, long- term (chronic)	Not classified	
Soil toxicity	Not classified	
Terrestrial vertebrate toxicity	Not classified	
Terrestrial invertebrate toxicity	Not classified	
Other information	Avoid release to the environment.	
glycerol trinitrate (55-63-0)		
LC50 - Fish [1]	1.9 mg/l (ASTM E729-80, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value, Lethal)	
NOEC chronic fish	0.03 mg/l	



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glycerol trinitrate (55-63-0)		
	 > 9560 mg/kg bodyweight (Equivalent or similar to OECD 402, Rat, Male / female, Experimental value, Dermal) 685 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral, 14 day(s)) 	
LD50 oral rat		
diphenylamine (122-39-4)		
EC50 - Crustacea [1]	2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Fresh water, Experimental value, Locomotor effect)	
ErC50 algae	2.17 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP)	
ErC50 algae	2.17 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP)	
NOEC chronic algae	0.0273 mg/l	
BCF - Fish [1]	51 – 253 (Cyprinus carpio, Literature study, Test duration: 8 weeks)	
Partition coefficient n-octanol/water (Log Pow)	3.71 – 3.84 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 20.2 °C)	
Partition coefficient n-octanol/water (Log Koc)	2.818 – 2.917 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
LD50 oral rat	> 800 mg/kg bodyweight (Rat, Male, Experimental value, Oral)	
copper (7440-50-8)		
LC50 - Fish [1]	200 μg/l (96 h, Salmo gairdneri, Flow-through system, Fresh water, Weight of evidence, Lethal)	
EC50 - Crustacea [1]	109 – 798 μg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Weight of evidence, Locomotor effect)	
EC50 72h - Algae [1]	230 μg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, Growth rate)	
zinc (7440-66-6)		
LC50 - Fish [1]	0.169 mg/l (Other, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, Zinc ion)	
EC50 - Crustacea [1]	416 μg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Ceriodaphnia dubia, Static system, Fresh water, Experimental value)	
ErC50 algae	0.15 mg/l	
ErC50 algae	0.15 mg/l	
BCF - Fish [1]	0.002 (40 day(s), Danio rerio, Semi-static system, Fresh water, Read-across)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))	
tetrazene (109-27-3)		
EC50 - Crustacea [1]	0.14 mg/l	

12.2. Persistence and degradability

DX-Cartridge Clean-Tec			
Persistence and degradability	Not established.		
glycerol trinitrate (55-63-0)			
Not rapidly degradable			
Persistence and degradability	Readily biodegradable in water.		
Biochemical oxygen demand (BOD)	53.6 g O ₂ /g substance		
diphenylamine (122-39-4)			
Not rapidly degradable			
Persistence and degradability	Not readily biodegradable in water.		
ThOD	2.39 g O ₂ /g substance		
copper (7440-50-8)			
Not rapidly degradable			
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.		
Biochemical oxygen demand (BOD)	Not applicable		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
BOD (% of ThOD)	Not applicable		



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zinc (7440-66-6)		
Not rapidly degradable		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
tetrazene (109-27-3)		
Not rapidly degradable		

12.3. Bioaccumulative potential

DX-Cartridge Clean-Tec		
Bioaccumulative potential	Not established.	
glycerol trinitrate (55-63-0)		
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
diphenylamine (122-39-4)		
BCF - Fish [1]	51 – 253 (Cyprinus carpio, Literature study, Test duration: 8 weeks)	
Partition coefficient n-octanol/water (Log Pow)	3.71 – 3.84 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water) Shake Flask Method, 20.2 °C)	
Partition coefficient n-octanol/water (Log Koc)	2.818 – 2.917 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
copper (7440-50-8)		
Bioaccumulative potential	Bioaccumulation: not applicable.	
zinc (7440-66-6)		
BCF - Fish [1]	0.002 (40 day(s), Danio rerio, Semi-static system, Fresh water, Read-across)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

12.4. Mobility in soil

DX-Cartridge Clean-Tec			
Mobility in soil	No additional information available		
glycerol trinitrate (55-63-0)			
Ecology - soil	Low potential for adsorption in soil.		
diphenylamine (122-39-4)			
Surface tension	71.8 mN/m (20 °C, 90 %, EU Method A.5: Surface tension)		
Partition coefficient n-octanol/water (Log Pow)	3.71 – 3.84 (Weight of evidence approach, OECD 107: Partition Coefficient (n-octanol/water) Shake Flask Method, 20.2 °C)		
Partition coefficient n-octanol/water (Log Koc)	2.818 – 2.917 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.		
copper (7440-50-8)			
Ecology - soil	Adsorbs into the soil.		
zinc (7440-66-6)			
Surface tension	No data available in the literature		
Ecology - soil	Adsorbs into the soil.		

12.5. Other adverse effects

Ozone

Other adverse effects

Not classified No additional information available

SECTION 13: Disposal considerations		
Product/Packaging disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Refer to manufacturer/supplier for information on recovery/recycling.	
Ecology - waste materials	Avoid release to the environment.	



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Additional information

Cartridge strips with unused cartridges: Hazardous waste due to risk of explosion. European waste catalogue: 16 04 01* - waste ammunition. If possible use up the cartridges or store them for your next project.

If not possible to use up the cartridges - The strip is mixed municipal waste and the cartridge itself is "waste ammunition" and has to be disposed of by an authorized/certified company. If cartridges are used up: European waste catalogue: 20 03 01 - mixed municipal waste . The product (cartridges and strip) can be disposed of as household or factory waste.

SECTION 14: Transport information

In accordance with ADR / IMDG / IA	ATA / RID		
ADR	IMDG	ΙΑΤΑ	RID
14.1. UN number or ID number	r		
UN 0323	UN 0323	UN 0323	UN 0323
14.2. UN proper shipping name			
CARTRIDGES, POWER DEVICE	CARTRIDGES, POWER DEVICE	Cartridges, power device	CARTRIDGES, POWER DEVICE
Transport document description	·		
UN 0323 CARTRIDGES,	UN 0323 CARTRIDGES,	UN 0323 Cartridges, power	UN 0323 CARTRIDGES,
POWER DEVICE, 1.4S, (E)	POWER DEVICE, 1.4S	device, 1.4S	POWER DEVICE, 1.4S
14.3. Transport hazard class(es)		
1.4S	1.4S	1.4S	1.4S
1.4	1.4	1.4	1.4
14.4. Packing group			
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards			
Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:	Dangerous for the environment:
No	No	No	No
	Marine pollutant: No		
No supplementary information avai	able		

14.6. Special precautions for user

Overland transport	
Classification code (ADR)	1.4S
Special provisions (ADR)	347
Limited quantities (ADR)	0
Packing instructions (ADR)	P134, LP102
Mixed packing provisions (ADR)	MP23
Transport category (ADR)	4
Tunnel restriction code (ADR)	E
Transport by sea	
Special provisions (IMDG)	347
Limited quantities (IMDG)	0
Packing instructions (IMDG)	P134, LP102
EmS-No. (Fire)	F-B
	a 1/
EmS-No. (Spillage)	S-X
EmS-No. (Spillage) Stowage category (IMDG)	S-X 01
Stowage category (IMDG)	01



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Air transport		
PCA packing instructions (IATA)	134	
PCA max net quantity (IATA)	25kg	
CAO packing instructions (IATA)	134	
Special provisions (IATA)	A165	
Rail transport		
Special provisions (RID)	347	
Limited quantities (RID)	0	
Packing instructions (RID)	P134, LP102	

Not applicable

14.8. Hazchem or Emergency Action Code

Not applicable

SECTION 15: Regulatory information

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

Hazardous Substances and New Organisms Act HSNO Approval Number

HSR100249

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other infor	mation	
SDS Major/Minor	None	
Issue date	4/11/2021	
Revision date	04/11/2021	
Supersedes	11/06/20180	

Indication of changes:

Section	Changed item	Change	Comments
2.2	Precautionary statements (GHS	Modified	
	NZ)		
3	Composition/information on	Modified	
	ingredients		



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reviations and acronyms	ADN - European Agreement concerning the International Carriage of Dangerous Goods t Inland Waterways
	ADR - European Agreement concerning the International Carriage of Dangerous Goods Road
	ATE - Acute Toxicity Estimate
	BCF - Bioconcentration factor
	CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
	DMEL - Derived Minimal Effect level
	DNEL - Derived-No Effect Level
	EC50 - Median effective concentration
	IARC - International Agency for Research on Cancer
	IATA - International Air Transport Association
	IMDG - International Maritime Dangerous Goods
	LC50 - Median lethal concentration
	LD50 - Median lethal dose
	LOAEL - Lowest Observed Adverse Effect Level
	NOAEC - No-Observed Adverse Effect Concentration
	NOAEL - No-Observed Adverse Effect Level
	NOEC - No-Observed Effect Concentration
	OECD - Organisation for Economic Co-operation and Development
	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
	vPvB - Very Persistent and Very Bioaccumulative
Ill text of H-statements:	
1.1: Expl. 1.1	1.1: Explosives, Division 1.1
1.4: Expl. 1.4	1.4: Explosives, Division 1.4
6.1A: Acute Tox. 1 (Dermal)	6.1A: Acute toxicity (dermal), Category 1

6.1A: Acute toxicity (dermal), Category 1
6.1B: Acute toxicity (inhalation:dust,mist) Category 2
6.1B: Acute toxicity (oral), Category 2
6.1C: Acute toxicity (dermal), Category 3
6.1C: Acute toxicity (inhalation:dust,mist) Category 3
6.1C: Acute toxicity (oral), Category 3
6.4A: Serious eye damage/eye irritation, Category 2
6.9B: Specific target organ toxicity — Repeated exposure, Category 2
9.1A: Hazardous to the aquatic environment — Acute Hazard, Category 1
9.1A: Hazardous to the aquatic environment — Chronic Hazard, Category 1
9.1B: Hazardous to the aquatic environment — Chronic Hazard, Category 2
9.1C: Hazardous to the aquatic environment — Chronic Hazard, Category 3
9.1D: Hazardous to the aquatic environment — Acute Hazard, Category 2



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9.3C: Ecotoxicity to terrestrial vertebrates C	9.3C: Ecotoxicity to terrestrial vertebrates C
H201	Explosive; mass explosion hazard.
H204	Fire or projection hazard.
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H433	Harmful to terrestrial vertebrates

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.