

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

1.1. Identification

Product form Article

Trade name DX-Cartridge Clean-Tec Product code BU Direct Fastening

1.2. Recommended use and restrictions on use

Recommended use CARTRIDGES FOR TOOLS, BLANK

Restrictions on use For professional use only

1.3. Supplier

Supplier Department issuing data specification sheet

Hilti, Inc. Hilti AG

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USA T +423 234 2111 T +1 9724035800 df-hse@hilti.com

1-800-879-8000 toll free - F +1 918 254 0522

1.4. Emergency telephone number

Emergency number Emergency CONTACT (24-Hour-Number)

GBK/Infotrac ID 101022 (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Explosives, Division 1.4 H204 Fire or projection hazard.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US) Warning

Hazard statements (GHS US) H204 - Fire or projection hazard.

Precautionary statements (GHS US) 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.

11/27/2023 US - en Page 1



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P370+P380+P375 - In case of fire: Evacuate area. Fight fire remotely due to the risk of

explosion

P372 - Explosion risk in case of fire.

P401 - Store in accordance with local regulations on explosives.

2.3. Other hazards which do not result in classification

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).

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not 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)

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	%	GHS-US classification
Iron	CAS-No.: 7439-89-6	50 – 70	Not classified
Plastics (PP / PA / PC)	-	15 – 40	Not classified
cellulose nitrate	CAS-No.: 9004-70-0	5 - 10	Expl. 1.1, H201
glycerol trinitrate	CAS-No.: 55-63-0	2 – 7	Unst. Expl., H200 Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 STOT RE 2, H373
diphenylamine	CAS-No.: 122-39-4	0 – 1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Eye Irrit. 2A, H319 STOT RE 2, H373

11/27/2023 US - en 2/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS-US classification
copper	CAS-No.: 7440-50-8	0 – 1	Not classified
zinc	CAS-No.: 7440-66-6	0 – 1	Not classified
tetrazene	CAS-No.: 109-27-3		Unst. Expl., H200 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. Allow affected person to breather

fresh air. Allow the victim to rest.

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse. Wash skin with plenty of water.

First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison

center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

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.

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

4.3. Immediate medical attention and special treatment, if necessary

No additional information available.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Dry powder. Water spray.
Unsuitable extinguishing media Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Explosion hazard Explosion risk in case of fire.

Hazardous decomposition products in case of fire Carbon monoxide. Carbon dioxide (CO2). Nitrous gasses.

5.3. Special protective equipment and precautions for fire-fighters

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Remove ignition sources. Use special care to avoid static electric charges. No open flames. No

smoking.

11/27/2023 US - en 3/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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.

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

Methods 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.

Other information Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Technical measures Ground/bond container and receiving equipment.

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 $5-25~^{\circ}\text{C}$

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
No additional information available
glycerol trinitrate (55-63-0)

IISA - ACGIH - Occupational Exposure Limits

OSA - ACGIN - Occupational Exposure Limits	
Local name	Nitroglycerin (NG)
ACGIH OEL TWA [ppm]	0.05 ppm
Remark (ACGIH)	Vasodilation

11/27/2023 US - en 4/15



Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

glycerol trinitrate (55-63-0)		
Regulatory reference	ACGIH 2023	
USA - OSHA - Occupational Exposure Limits		
Local name	Nitroglycerin	
OSHA PEL C	2 mg/m³	
OSHA PEL C [ppm]	0.2 ppm	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
diphenylamine (122-39-4)		
USA - ACGIH - Occupational Exposure Lim	iits	
Local name	Diphenylamine	
ACGIH OEL TWA	10 mg/m³	
Remark (ACGIH)	Liver & kidney dam; hematologic eff	
Regulatory reference	ACGIH 2023	
cellulose nitrate (9004-70-0)		
No additional information available		
copper (7440-50-8)		
USA - ACGIH - Occupational Exposure Lim	iits	
Local name	Copper, as Cu	
ACGIH OEL TWA	0.2 mg/m³ (Fume) 1 mg/m³ (Dusts and mists)	
Remark (ACGIH)	TLV® Basis: Irr; GI; metal fume fever	
Regulatory reference	ACGIH 2023	
USA - OSHA - Occupational Exposure Limi	its	
Local name	Copper	
OSHA PEL TWA [1]	0.1 mg/m³ (Fume (as Cu)) 1 mg/m³ (Dusts and mists (as Cu))	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
zinc (7440-66-6)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	2 mg/m³	
tetrazene (109-27-3)		
No additional information available		
Iron (7439-89-6)		
USA - ACGIH - Occupational Exposure Lim	its	
ACGIH OEL TWA	10 mg/m³ as iron oxide dust or fume	

11/27/2023 US - en 5/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Plastics (PP / PA / PC)

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls

No additional information available.
Environmental exposure controls

Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

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

Hand protection:

Not required for normal conditions of use

Eye protection:

Chemical goggles or safety glasses. ISO 16321-1

Skin and body protection:

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

Respiratory protection:

Respiratory protection not required in normal conditions

Personal protective equipment symbol(s):





Thermal hazard protection:

No information available.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Solid

Colour According to product specification

Odour There may be no odour warning properties, odour is subjective and inadequate to warn of

overexposure.

Odour threshold No data available рΗ No data available No data available Melting point Freezing point No data available Boiling point No data available No data available Flash point Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) No data available Vapour pressure No data available No data available Relative vapour density at 20°C

11/27/2023 US - en 6/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative density No data available Solubility No data available Partition coefficient n-octanol/water (Log Pow) No data available No data available Auto-ignition temperature Decomposition temperature No data available No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive limits No data available Explosive properties Fire or projection hazard. Oxidising properties No data available

9.2. Other information

Additional information Not applicable

Article

SECTION 10: Stability and reactivity

10.1. Reactivity

Fire or projection hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Risk of explosion by shock, friction, fire or other sources of ignition. Heating may cause an explosion. At high temperatures : > 150 °C Response.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. 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)

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)

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

glycerol trinitrate (55-63-0)		
LD50 oral	685 mg/kg	
LD50 dermal rat	> 9560 mg/kg bodyweight (OECD 402 method)	
ATE US (dust,mist) 0.05 mg/l/4h		
diphenylamine (122-39-4)		
LD50 oral rat	> 800 mg/kg bodyweight	
LD50 dermal	5000 mg/kg	

11/27/2023 US - en 7/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

diphenylamine (122-39-4)		
ATE US (gases)	700 ppmv/4h	
ATE US (vapours)	3 mg/l/4h	
ATE US (dust,mist)	0.5 mg/l/4h	
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met)	
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)	
diphenylamine (122-39-4)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity	Not classified (Based on available data, the classification criteria are not met)	
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)	
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)	
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	
	(Based on available data, the classification criteria are not met)	
Viscosity, kinematic	No data available	
Potential adverse human health effects and	No additional information available. No harmful effects are to be expected if used properly.	
symptoms The contained ingredients can be harmful, but they are hermetically enclosed in the article as can not be released.		
	The dismantling of the article is prohibited.	
Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.	

SECTION 12: Ecological information

CEOTION 12: Ecological II	iiomadon
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 and can not be released. The dismantling of the article is prohibited.
12.2 Persistence and degradable	ility

DX-Cartridge Clean-Tec Persistence and degradability Not established. glycerol trinitrate (55-63-0) Not rapidly degradable Persistence and degradability Inherently biodegradable. Biodegradation 92.2 % (84 h)

11/27/2023 US - en 8/15



Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

diphenylamine (122-39-4)			
Not rapidly degradable			
Persistence and degradability	Not readily biodegraded.		
Biodegradation	26 % (28 d; (OECD 301D method))		
copper (7440-50-8)			
Not rapidly degradable			
zinc (7440-66-6)			
Not rapidly degradable			
Persistence and degradability	Not applicable for inorganic products.		
tetrazene (109-27-3)			
Not rapidly degradable			
Iron (7439-89-6)			
Not rapidly degradable			
12.3. Bioaccumulative potential			
DX-Cartridge Clean-Tec			
Bioaccumulative potential	Not established.		
glycerol trinitrate (55-63-0)			
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).		
diphenylamine (122-39-4)			
Partition coefficient n-octanol/water (Log Kow)	3.82 (20,2 °C)		
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).		
zinc (7440-66-6)			
Bioaccumulative potential	Bioaccumulation unlikely.		
12.4. Mobility in soil	12.4. Mobility in soil		
glycerol trinitrate (55-63-0)			
Ecology - soil	Low potential for adsorption in soil.		
diphenylamine (122-39-4)			
Surface tension	72.3 mN/m (20 °C; EU Method A.5)		
12.5. Other adverse effects			
Other adverse effects	No additional information available.		
Other information	Avoid release to the environment.		

11/27/2023 US - en 9/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Refer to

manufacturer/supplier for information on recovery/recycling. At high temperatures may form :

Response.

Additional information 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 cartridges are used up: European waste catalogue: 20 03 01 - mixed municipal waste . The

product can be disposed of as household or factory waste.

Ecology - waste materials Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID	
14.1. UN number or ID number				
UN 0323	UN 0323	UN 0323	UN 0323	
14.2. UN proper shipping nam	e			
CARTRIDGES, POWER DEVICE	CARTRIDGES, POWER DEVICE	Cartridges, power device	CARTRIDGES, POWER DEVICE	
Transport document description		,		
UN 0323 CARTRIDGES, POWER DEVICE, 1.4S, (E)	UN 0323 CARTRIDGES, POWER DEVICE, 1.4S	UN 0323 Cartridges, power device, 1.4S	UN 0323 CARTRIDGES, POWER DEVICE, 1.4S	
14.3. Transport hazard class(e	es)			
1.4\$	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: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	
No supplementary information availa	able			

14.6. Special precautions for user

Overland transport

Classification code (ADR) 1.4S
Special provisions (ADR) 347
Limited quantities (ADR) 0
Excepted quantities (ADR) E0

Packing instructions (ADR) P134, LP102 Mixed packing provisions (ADR) MP23

11/27/2023 US - en 10/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Transport category (ADR)

Special provisions for carriage - Loading, unloading CV1, CV2, CV3

and handling (ADR)

Special provisions for carriage - Operation (ADR) S1
Tunnel restriction code (ADR) E

Transport by sea

Special provisions (IMDG) 347
Limited quantities (IMDG) 0
Excepted quantities (IMDG) E0

Packing instructions (IMDG) P134, LP102

EmS-No. (Fire)F-BEmS-No. (Spillage)S-XStowage category (IMDG)01Stowage and handling (IMDG)SW1

Properties and observations (IMDG)

See glossary of terms in appendix B.

MFAG-No 114

Air transport

E0 PCA Excepted quantities (IATA) PCA Limited quantities (IATA) Forbidden PCA limited quantity max net quantity (IATA) Forbidden PCA packing instructions (IATA) 134 PCA max net quantity (IATA) 25kg CAO packing instructions (IATA) 134 CAO max net quantity (IATA) 100kg Special provisions (IATA) A165 ERG code (IATA) 3L

Rail transport

Classification code (RID) 1.4S
Special provisions (RID) 347
Limited quantities (RID) 0
Excepted quantities (RID) E0

Packing instructions (RID) P134, LP102
Mixed packing provisions (RID) MP23
Transport category (RID) 4
Special provisions for carriage – Packages (RID) W2
Special provisions for carriage - Loading, unloading CW1

and handling (RID)

Colis express (express parcels) (RID) CE1 Hazard identification number (RID) 1.4S

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

11/27/2023 US - en 11/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Plastics (PP / PA / PC)	CAS-No.	15 – 40%
Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S		
zinc	CAS-No. 7440-66-6	0 – 1%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.		
glycerol trinitrate	CAS-No. 55-63-0	2 – 7%
diphenylamine	CAS-No. 122-39-4	0 – 1%
copper	CAS-No. 7440-50-8	0 – 1%
zinc	CAS-No. 7440-66-6	0 – 1%

glycerol trinitrate (55-63-0)	
CERCLA RQ	10 lb

copper (7440-50-8)	
CERCLA RQ	5000 lb

zinc (7440-66-6)	
CERCLA RQ	1000 lb

15.2. International regulations

CANADA

glycerol trinitrate (55-63-0)

Listed on the Canadian DSL (Domestic Substances List)

diphenylamine (122-39-4)

Listed on the Canadian DSL (Domestic Substances List)

cellulose nitrate (9004-70-0)

Listed on the Canadian DSL (Domestic Substances List)

copper (7440-50-8)

Listed on the Canadian DSL (Domestic Substances List)

zinc (7440-66-6)

Listed on the Canadian DSL (Domestic Substances List)

tetrazene (109-27-3)

Listed on the Canadian NDSL (Non-Domestic Substances List)

11/27/2023 US - en 12/15



Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Iron (7439-89-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

glycerol trinitrate (55-63-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

diphenylamine (122-39-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

cellulose nitrate (9004-70-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

copper (7440-50-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

zinc (7440-66-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Iron (7439-89-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date 11/27/2023

Data sources Supplier Safety Data Sheet.

Full text of H-statements		
H200	Unstable explosives.	
H201	Explosive; mass explosion hazard.	
H204	Fire or projection hazard.	
H300	Fatal if swallowed.	
H301	Toxic if swallowed.	

11/27/2023 US - en 13/15



Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-statements	
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.

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	

11/27/2023 US - en 14/15



Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Abbreviations and acronyms	
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:			
General.			
Section	Changed item	Change	Comments
3	Composition/information on ingredients	Modified	

SDS US 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.

11/27/2023 US - en 15/15