

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR) , as amended by SOR/2022-272

Issue date: 11/11/2025 Revision date: 11/11/2025 Supersedes: 03/24/2025 Version: 3.0

### **SECTION 1: Identification**

1.1. Product identifier

Product form Article

Trade name Synthetic diamond impregnated segments

Product code BU Diamond

1.2. Other means of identification

Other means of identification SPX-L >35mm, SP-L >35mm, SPX-L Abrasive >35mm, SP-L Abrasive >35mm, SPX-L Handheld

>35mm, SP-L Universal >35mm, SPX-L masonry, SPX-A

1.3. Recommended use of the chemical and restrictions on use

Recommended use Grinding materials
Restrictions on use For professional use only

1.4. Supplier's details

Supplier Department issuing data specification sheet

Hilti (Canada) Corp. Hilti A

2201 Bristol Circle Feldkircher Strasse 100
Suite 700 FL 9494 Schaan
CA L6H 0J8 Oakville, Ontario Liechtenstein

CA L6H 0J8 Oakville, Ontario Liechtenstein
Canada T +423 234 2111

T +1905 8139200 product.compliance-power.tools@hilti.com

1-800-363-4458 toll free, F +1 905 813 9009

ca-sales@hilti.com

1.5. 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 identification**

### 2.1. Classification of the substance or mixture

Classification (GHS CA)

Not classified

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

#### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments Sulfur is present in bound form and is not released in elemental form.

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
copper	copper bronze, powder / copper, powder	CAS-No.: 7440-50-8	1 - 5	Not classified
molybdenum	molybdenum / molybdenum / molybdenum, powder	CAS-No.: 7439-98-7	0.5 - 5	Not classified
graphite	Graphite carbon-graphite	CAS-No.: 7782-42-5	0.1 - 1.5	Not classified
Tin	Tin alpha-tin / silver matt / tin	CAS-No.: 7440-31-5	0.1 - 1	Not classified
sulfur	sulfur	CAS-No.: 7704-34-9	0.1 - 1	Skin Irrit. 2, H315

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 after inhalation Remove person to fresh air and keep comfortable for breathing. When symptoms occur: go into

open air and ventilate suspected area.

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 Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion Rinse mouth.

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

Symptoms/effects after inhalation May cause respiratory irritation.

Symptoms/effects after eye contact May cause severe irritation.

Potential adverse human health effects and

symptoms

Irritation: may cause irritation to the respiratory system.

### 4.3. Immediate medical attention and special treatment, if necessary

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

## 5.1. Suitable extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream.

### 5.2. Specific hazards arising from the hazardous product

Fire hazard Not flammable.

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

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

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### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

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

Methods for cleaning up

Shovel into suitable and closed container for disposal.

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

Precautions for safe handling

The product should not be used for purposes other than those shown above without first

referring to the supplier and obtaining written handling instructions.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Wash contaminated clothing before reuse.

Additional hazards when processed Normal use of this product shall imply use in accordance with the instructions on the packaging

and in line with the expectations of a professional user.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store in a dry place.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

copper (7440-50-8)			
Canada (Alberta) - Occupational Exposure Limits			
Local name	Copper		
OEL TWA	0.2 mg/m³ Fume 1 mg/m³ Dusts/mists, as Cu		
Regulatory reference	Alberta Regulation 191/2021		
Canada (Quebec) - Occupational Exposure Limits			
Local name	Copper		
VEMP (OEL TWAEV)	0.2 mg/m³ Fume (as Cu) 1 mg/m³ Dusts & mists (as Co)		
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety		
Canada (British Columbia) - Occupational Exposure	Canada (British Columbia) - Occupational Exposure Limits		
Local name	Copper, as Cu		
OEL TWA	1 mg/m³ Dusts and mists 0.2 mg/m³ Fume		
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)		
Canada (Manitoba) - Occupational Exposure Limits			
Local name	Copper, as Cu		

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Notations and remarks  Regulatory reference  Canada (New Brunswick) - Occupational Exposure Limits	Fume) usts and mists) :: Irr; GI; metal fume fever
Regulatory reference ACGIH 202  Canada (New Brunswick) - Occupational Exposure Limits	s: Irr; GI; metal fume fever
Canada (New Brunswick) - Occupational Exposure Limits	
	5
Local name Copper Dus	sts and mists, as Cu
OEL TWA 1 mg/m³	
Notations and remarks	al fume fever
Canada (Newfoundland and Labrador) - Occupational Exposure	Limits
Local name Copper, as	Cu
OEL TWA 0.2 mg/m³ ( 1 mg/m³ (Du	Fume) usts and mists)
Notations and remarks TLV® Basis	s: Irr; GI; metal fume fever
Regulatory reference ACGIH 202	5
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name Copper, as	Cu
OEL TWA 0.2 mg/m³ ( 1 mg/m³ (Du	Fume) usts and mists)
Notations and remarks TLV® Basis	s: Irr; GI; metal fume fever
Regulatory reference ACGIH 202	5
Canada (Nunavut) - Occupational Exposure Limits	
Local name Copper, (as	Cu)
OEL TWA 0.2 mg/m³ F 1 mg/m³ Du	Fume sts and mists
OEL STEL 0.6 mg/m³ F 3 mg/m³ Du	Fume sts and mists
Regulatory reference Occupation	al Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name Copper, (as	Cu)
OEL TWA 0.2 mg/m³ F 1 mg/m³ Du	ume sts and mists
OEL STEL 0.6 mg/m³ F 3 mg/m³ Du	- sts and mists
Regulatory reference Occupation	Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name Copper - Du	usts and mists, as Cu
OEL TWAEV 1 mg/m³	

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DeL TWA 0 2 mg/m² (Furne) 1 mg/m² (Furne) 2 mg/m² (Furne) 1 mg	Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents	
DeL TWA  O 2 mg/m² (Fume) 1 mg/m² (Dusts and mists)  Notations and remarks  Regulatory reference  Canada (Saskatchewan) - Occupational Exposure Limits  DEL STEL  O 2 mg/m² fume 1 mg/m² dusts and mists  DEL STEL  O 3 mg/m² fume 3 mg/m² dusts and mists  Regulatory reference  The Occupational Health and Safety Regulations. 2020. Chapter S-15.1 Reg 10  Tin (7440-31-5)  Canada (Alberta) - Occupational Exposure Limits  Cocal name  Tin, as Sn - Metal  DEL TWA  Regulatory reference  Tin, as Sn - Metal  DEL TWA  Regulatory reference  Alberta Regulation 191/2021  Canada (Guebec) - Occupational Exposure Limits  Cocal name  Tin and is inorganic compounds, (as Sn) (except stannane and indium tin oxide)  Regulatory reference  Seandad (Gritish Columbia) - Occupational Exposure Limits  Cocal name  Tin  DEL TWA  Regulatory reference  Seandad (British Columbia) - Occupational Exposure Limits  Cocal name  Tin  DEL TWA  Regulatory reference  Seandad (British Columbia) - Occupational Exposure Limits  Cocal name  Tin  DEL TWA  Regulatory reference  Cocal name  Tin, metal, as Sn  Cocal name  Tin, metal, as Sn  Cocal name  Tin, metal, as Sn  Cocal name  Tin, well, as Sn  Cocal name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Canada (Prince Edward Island) - Occupational Expo	osure Limits	
Ing/m* (Dusts and mists)	Local name	Copper, as Cu	
Regulatory reference ACGIH 2025 Canada (Saskatchewan) - Occupational Exposure Limits Local name Copper, (as Cu)  DEL TWA Copper, (as Cu)  DEL TWA Copper, (as Cu)  DEL STEL Consider Copper, (as Cu)  Description of Language Copper, (as Cu)  Desc	OEL TWA		
Canada (Saskatchewan) - Occupational Exposure Limits  Coci name  Copper, (as Cu)  O.2 mg/m³ fume 1 mg/m² dusts and mists  Coci name  CEL STEL  O.6 mg/m³ fume 3 mg/m² dusts and mists  Regulatory reference The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10  If in (7440-31-5)  Canada (Alberta) - Occupational Exposure Limits  Coci name Tin, as Sn - Metal  CEL TWA 2 mg/m²  Regulatory reference The adjuster Regulation 191/2021  Canada (Quebec) - Occupational Exposure Limits  Coci name Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  Regulatory reference Canada (British Columbia) - Occupational Exposure Limits  Coci name Tin  Cel TWA 2 mg/m³  Coci name Tin  Coci name	Notations and remarks	TLV® Basis: Irr; GI; metal fume fever	
Copper, (as Cu)  DEL TWA  DEL STEL  OE Gray/m³ furme 1 mg/m³ dusts and mists  Regulatory reference The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10  Fin (7440-31-5)  Coal name Tin, as Sn - Metal  DEL TWA 2 mg/m³  Regulatory reference Alberta Regulation 191/2021  Coanada (Auberta) - Occupational Exposure Limits  Coal name Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  Regulatory reference S-2.1, r. 13 - Regulation respecting occupational health and safety  Coanada (British Columbia) - Occupational Exposure Limits  Coal name Tin  DEL TWA 2 mg/m³  Regulatory reference S-2.1, r. 13 - Regulation respecting occupational health and safety  Coanada (British Columbia) - Occupational Exposure Limits  Coal name Tin  DEL TWA 2 mg/m³  Regulatory reference OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  Coanada (Manitoba) - Occupational Exposure Limits  Coal name Tin, metal, as Sn  DEL TWA 2 mg/m³ (1 - Inhalable particulate matter)  Votations and remarks  Regulatory reference ACGIH 2025  Coanada (New Brunswick) - Occupational Exposure Limits  Coal name Tin, metal, as Sn  Regulatory reference ACGIH 2025  Coanada (New Brunswick) - Occupational Exposure Limits  Coal name Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Regulatory reference	ACGIH 2025	
DEL TWA  O. 2 mg/m³ dusts and mists  O. 6 mg/m² dusts and mists  Regulatory reference The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10  Tin (7440-31-5)  Canada (Alberta) - Occupational Exposure Limits  Cocal name Tin, as Sn - Metal  DEL TWA 2 mg/m²  Regulatory reference Alberta Regulation 191/2021  Canada (Quebec) - Occupational Exposure Limits  Cocal name Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  WEMP (OEL TWAEV) 2 mg/m² Pi  Regulatory reference S-2.1, r. 13 - Regulation respecting occupational health and safety  Canada (British Columbia) - Occupational Exposure Limits  Cocal name Tin Cocal name Cocanada (Manitoba) - Occupational Exposure Limits  Cocal name Cocanada (Manitoba) - Occupational Exposure Limits  Cocal name Cocanada (Manitoba) - Occupational Exposure Limits  Cocal name Tin, metal, as Sn  Cocal name Tin, metal, as Sn  Cocanada (Manitoba) - Occupational Exposure Limits  Cocal name Tin Min metal, as Sn  Cocan name Tin Min metal name Tin Netal name Tin Net	Canada (Saskatchewan) - Occupational Exposure L	imits	
1 mg/m³ dusts and mists  DEL STEL  0.6 mg/m³ fume 3 mg/m³ dusts and mists  Regulatory reference The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10  In (7440-31-5)  Canada (Alberta) - Occupational Exposure Limits  Local name Tin, as Sn - Metal  DEL TWA Regulatory reference Alberta Regulation 191/2021  Canada (Quebec) - Occupational Exposure Limits  Local name Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  Regulatory reference S-2.1, r. 13 - Regulation respecting occupational health and safety  Canada (British Columbia) - Occupational Exposure Limits  Local name Tin  DEL TWA Regulatory reference Canada (British Columbia) - Occupational Exposure Limits  Local name Tin  DEL TWA Regulatory reference Canada (Manitoba) - Occupational Exposure Limits  Local name Tin  Canada (Manitoba) - Occupational Exposure Limits  Local name Tin, metal, as Sn  DEL TWA Regulatory reference Canada (Manitoba) - Occupational Exposure Limits  Local name Tin, metal, as Sn  DEL TWA Regulatory reference Canada (Manitoba) - Occupational Exposure Limits  Local name Tin, metal, as Sn  DEL TWA Regulatory reference ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Local name	Copper, (as Cu)	
Regulatory reference The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10  Fin (7440-31-5)  Canada (Alberta) - Occupational Exposure Limits  Local name Tin, as Sn - Metal  DEL TWA 2 mg/m³  Regulatory reference Alberta Regulation 191/2021  Canada (Quebec) - Occupational Exposure Limits  Local name Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  /EMP (OEL TWAEV) 2 mg/m³ Pi  Regulatory reference S-2.1, r. 13 - Regulation respecting occupational health and safety  Canada (British Columbia) - Occupational Exposure Limits  Local name Tin  DEL TWA 2 mg/m³  Regulatory reference OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  Canada (Manitoba) - Occupational Exposure Limits  Local name Tin, metal, as Sn  DEL TWA 2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  Regulatory reference ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name Tin, metal, compounds, excluding Tin hydride, as Sn (1992) Metal	OEL TWA		
Canada (Alberta) - Occupational Exposure Limits  Local name  DEL TWA  Regulatory reference  Canada (Quebec) - Occupational Exposure Limits  Local name  Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  Zeng/m³ Pi  Regulatory reference  Canada (British Columbia) - Occupational Exposure Limits  Local name  Tin  DEL TWA  2 mg/m³  Pi  Regulatory reference  S-2.1, r. 13 - Regulation respecting occupational health and safety  Canada (British Columbia) - Occupational Exposure Limits  Local name  Tin  DEL TWA  2 mg/m³  OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  Canada (Manitoba) - Occupational Exposure Limits  Local name  Tin, metal, as Sn  DEL TWA  2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  Regulatory reference  ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	OEL STEL		
Canada (Alberta) - Occupational Exposure Limits  DEL TWA  2 mg/m³  Regulatory reference  Canada (Quebec) - Occupational Exposure Limits  December 1 may 1 ma	Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10	
Tin, as Sn - Metal  DEL TWA  Regulatory reference Alberta Regulation 191/2021  Canada (Quebec) - Occupational Exposure Limits  Local name Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  Zemy/m³ Pi  Regulatory reference S-2.1, r. 13 - Regulation respecting occupational health and safety  Canada (British Columbia) - Occupational Exposure Limits  Local name Tin  DEL TWA 2 mg/m³  Regulatory reference OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  Canada (Manitoba) - Occupational Exposure Limits  Local name Tin, metal, as Sn  DEL TWA 2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks Regulatory reference ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Tin (7440-31-5)		
Alberta Regulatory reference Alberta Regulation 191/2021  Canada (Quebec) - Occupational Exposure Limits  Local name Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  Alberta Regulatory reference Description occupational Exposure Limits  Local name Tin  Canada (British Columbia) - Occupational Exposure Limits  Local name Tin  DEL TWA	Canada (Alberta) - Occupational Exposure Limits		
Alberta Regulation 191/2021  Canada (Quebec) - Occupational Exposure Limits  Local name  Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)  Zemg/m³ Pi  Regulatory reference  S-2.1, r. 13 - Regulation respecting occupational health and safety  Canada (British Columbia) - Occupational Exposure Limits  Local name  Tin  DEL TWA  2 mg/m³  Regulatory reference  OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  Canada (Manitoba) - Occupational Exposure Limits  Local name  Tin, metal, as Sn  DEL TWA  2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  TLV® Basis: Pneumoconiosis  Regulatory reference  Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Local name	Tin, as Sn - Metal	
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Zegulatory reference S-2.1, r. 13 - Regulation respecting occupational health and safety  Canada (British Columbia) - Occupational Exposure Limits  Cocal name Tin  DEL TWA 2 mg/m³  Chanada (Manitoba) - Occupational Exposure Limits  Cocal name Tin, metal, as Sn  DEL TWA 2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  Regulatory reference ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Canada (Quebec) - Occupational Exposure Limits		
Regulatory reference  S-2.1, r. 13 - Regulation respecting occupational health and safety  Canada (British Columbia) - Occupational Exposure Limits  Local name  Tin  DEL TWA  2 mg/m³  Regulatory reference  OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  Canada (Manitoba) - Occupational Exposure Limits  Local name  Tin, metal, as Sn  DEL TWA  2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  Regulatory reference  ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Local name	Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)	
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Tin  DEL TWA  2 mg/m³  Canada (Manitoba) - Occupational Exposure Limits  Local name  Tin, metal, as Sn  DEL TWA  2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  Regulatory reference  ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety	
DEL TWA 2 mg/m³ Regulatory reference OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC) Canada (Manitoba) - Occupational Exposure Limits Local name Tin, metal, as Sn DEL TWA 2 mg/m³ (I - Inhalable particulate matter) Notations and remarks TLV® Basis: Pneumoconiosis Regulatory reference ACGIH 2025 Canada (New Brunswick) - Occupational Exposure Limits Local name Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Canada (British Columbia) - Occupational Exposure	e Limits	
Regulatory reference  OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)  Canada (Manitoba) - Occupational Exposure Limits  Local name  Tin, metal, as Sn  2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  TLV® Basis: Pneumoconiosis  Regulatory reference  ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Local name	Tin	
Canada (Manitoba) - Occupational Exposure Limits  Local name  Tin, metal, as Sn  DEL TWA  2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  TLV® Basis: Pneumoconiosis  Regulatory reference  ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	OEL TWA	2 mg/m³	
Tin, metal, as Sn  DEL TWA  2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks  TLV® Basis: Pneumoconiosis  Regulatory reference  ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)	
DEL TWA 2 mg/m³ (I - Inhalable particulate matter)  Notations and remarks TLV® Basis: Pneumoconiosis  Regulatory reference ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Canada (Manitoba) - Occupational Exposure Limits		
Notations and remarks  TLV® Basis: Pneumoconiosis  Regulatory reference  ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Local name	Tin, metal, as Sn	
Regulatory reference ACGIH 2025  Canada (New Brunswick) - Occupational Exposure Limits  Local name Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	OEL TWA	2 mg/m³ (I - Inhalable particulate matter)	
Canada (New Brunswick) - Occupational Exposure Limits  Local name  Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Notations and remarks	TLV® Basis: Pneumoconiosis	
Local name Tin and inorganic compounds, excluding Tin hydride, as Sn (1992) Metal	Regulatory reference	ACGIH 2025	
	Canada (New Brunswick) - Occupational Exposure	Limits	
DEL TWA 2 mg/m³	Local name	Tin and inorganic compounds,excluding Tin hydride, as Sn (1992) Metal	
	OEL TWA	2 mg/m³	

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Canada (Newfoundland and Labrador) - Occupational Exposure Limits				
Local name	Tin, metal, as Sn			
OEL TWA	2 mg/m³ (I - Inhalable particulate matter)			
Notations and remarks	TLV® Basis: Pneumoconiosis			
Regulatory reference	ACGIH 2025			
Canada (Nova Scotia) - Occupational Exposure Limits				
Local name	Tin, metal, as Sn			
OEL TWA	2 mg/m³ (I - Inhalable particulate matter)			
Notations and remarks	TLV® Basis: Pneumoconiosis			
Regulatory reference	ACGIH 2025			
Canada (Nunavut) - Occupational Exposure Limits				
Local name	Tin, (as Sn): metal			
OEL TWA	2 mg/m³			
OEL STEL	4 mg/m³			
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)			
Canada (Northwest Territories) - Occupational Exposure Limits				
Local name	Tin, (as Sn): metal			
OEL TWA	2 mg/m³			
OEL STEL	4 mg/m³			
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)			
Canada (Ontario) - Occupational Exposure Limits				
Local name	Tin - Metal			
OEL TWAEV	2 mg/m³			
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Ontario table of occupational exposure limits			
Canada (Prince Edward Island) - Occupational Exp	osure Limits			
Local name	Tin, metal, as Sn			
OEL TWA	2 mg/m³ (I - Inhalable particulate matter)			
Notations and remarks	TLV® Basis: Pneumoconiosis			
Regulatory reference	ACGIH 2025			
Canada (Saskatchewan) - Occupational Exposure Limits				
Local name	Tin, (as Sn): metal			
OEL TWA	2 mg/m³			
OEL STEL	4 mg/m³			
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10			

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molybdenum (7439-98-7)				
Canada (Alberta) - Occupational Exposure Limits				
Local name	Molybdenum, as Mo - Metal and insoluble compounds			
OEL TWA	3 mg/m³ Respirable 10 mg/m³ Total			
Regulatory reference	Alberta Regulation 191/2021			
Canada (Quebec) - Occupational Exposure Limits				
Local name	Molybdenum (as Mo) - Metal and insoluble compounds			
VEMP (OEL TWAEV)	10 mg/m³ ld 3 mg/m³ Rd			
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety			
Canada (British Columbia) - Occupational Exposure	e Limits			
Local name	Molybdenum - Metal and insoluble compounds, as Mo			
OEL TWA	3 mg/m³ Respirable 10 mg/m³ Inhalable			
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)			
Canada (Manitoba) - Occupational Exposure Limits				
Local name	Metallic molybdenum and insoluble compounds, as Mo			
OEL TWA	10 mg/m³ (I - Inhalable particulate matter) 3 mg/m³ (R - Respirable particulate matter)			
Notations and remarks	TLV® Basis: LRT irr; CNS impair			
Regulatory reference	ACGIH 2025			
Canada (New Brunswick) - Occupational Exposure Limits				
Local name	Molybdenum Metal and insoluble compounds			
OEL TWA	3 mg/m³			
Canada (Newfoundland and Labrador) - Occupation	nal Exposure Limits			
Local name	Metallic molybdenum and insoluble compounds, as Mo			
OEL TWA	10 mg/m³ (I - Inhalable particulate matter) 3 mg/m³ (R - Respirable particulate matter)			
Notations and remarks	TLV® Basis: LRT irr; CNS impair			
Regulatory reference	ACGIH 2025			
Canada (Nova Scotia) - Occupational Exposure Lim	Canada (Nova Scotia) - Occupational Exposure Limits			
Local name	Metallic molybdenum and insoluble compounds, as Mo			
OEL TWA	10 mg/m³ (I - Inhalable particulate matter) 3 mg/m³ (R - Respirable particulate matter)			
Notations and remarks	TLV® Basis: LRT irr; CNS impair			
Regulatory reference	ACGIH 2025			

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Canada (Nunavut) - Occupational Exposure Limits				
Local name	Molybdenum, (as Mo): Metal and insoluble compounds			
OEL TWA	10 mg/m³ (inhalable fraction) 3 mg/m³ (respirable fraction)			
OEL STEL	20 mg/m³ (inhalable fraction) 6 mg/m³ (respirable fraction)			
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)			
Canada (Northwest Territories) - Occupational Exposure Limits				
Local name	Molybdenum, (as Mo): Metal and insoluble compounds			
OEL TWA	10 mg/m³ (inhalable fraction) 3 mg/m³ (respirable fraction)			
OEL STEL	20 mg/m³ (inhalable fraction) 6 mg/m³ (respirable fraction)			
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)			
Canada (Ontario) - Occupational Exposure Limits				
Local name	Molybdenum, as Mo - Metal and insoluble compounds			
OEL TWAEV	10 mg/m³ (I - Inhalable fraction) 3 mg/m³ (R - Respirable fraction)			
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents			
Canada (Prince Edward Island) - Occupational Exp	posure Limits			
Local name	Metallic molybdenum and insoluble compounds, as Mo			
OEL TWA	10 mg/m³ (I - Inhalable particulate matter) 3 mg/m³ (R - Respirable particulate matter)			
Notations and remarks	TLV® Basis: LRT irr; CNS impair			
Regulatory reference	ACGIH 2025			
Canada (Saskatchewan) - Occupational Exposure	Limits			
Local name	Molybdenum, (as Mo): Metal and insoluble compounds			
OEL TWA	10 mg/m³ (inhalable fraction) 3 mg/m³ (respirable fraction)			
OEL STEL	20 mg/m³ (inhalable fraction) 6 mg/m³ (respirable fraction)			
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10			
graphite (7782-42-5)				
Canada (Alberta) - Occupational Exposure Limits				
Local name	Graphite (all forms except graphite fibres)			
OEL TWA	2 mg/m³ respirable			
Regulatory reference	Alberta Regulation 191/2021			

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Canada (Quebec) - Occupational Exposure Limits				
Local name	Graphite (all forms except fibers)			
VEMP (OEL TWAEV)	2 mg/m³ Rd			
Notations and remarks	Note 1: The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%			
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety			
Canada (British Columbia) - Occupational Exposure Limits				
Local name	Graphite - All forms except graphite fibres			
OEL TWA	2 mg/m³ Respirable			
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)			
Canada (Manitoba) - Occupational Exposure Limits				
Local name	Graphite, all forms except graphite fibers			
OEL TWA	2 mg/m³ (R - Respirable particulate matter)			
Notations and remarks	TLV® Basis: Pneumoconiosis			
Regulatory reference	ACGIH 2025			
Canada (New Brunswick) - Occupational Exposure Limits				
Local name	Graphite			
OEL TWA	2 mg/m³			
Notations and remarks	Pneumoconiosis			
Canada (Newfoundland and Labrador) - Occupational Exposure Limits				
Local name	Graphite, all forms except graphite fibers			
OEL TWA	2 mg/m³ (R - Respirable particulate matter)			
Notations and remarks	TLV® Basis: Pneumoconiosis			
Regulatory reference	ACGIH 2025			
Canada (Nova Scotia) - Occupational Exposure Limits				
Local name	Graphite, all forms except graphite fibers			
OEL TWA	2 mg/m³ (R - Respirable particulate matter)			
Notations and remarks	TLV® Basis: Pneumoconiosis			
Regulatory reference	ACGIH 2025			
Canada (Nunavut) - Occupational Exposure Limits				
Local name	Graphite, natural-all forms except graphite fibres			
OEL TWA	2 mg/m³ (respirable fraction)			
OEL STEL	4 mg/m³ (respirable fraction)			
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)			
Canada (Northwest Territories) - Occupational Exposure Limits				
Local name	Graphite, natural-all forms except graphite fibres			

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OEL TWA	2 mg/m³ (respirable fraction)			
OEL STEL	4 mg/m³ (respirable fraction)			
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)			
Canada (Ontario) - Occupational Exposure Limits				
Local name	Graphite (all forms except graphite fibers)			
OEL TWAEV	2 mg/m³ (R - Respirable fraction)			
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents			
Canada (Prince Edward Island) - Occupational Exposure Limits				
Local name	Graphite, all forms except graphite fibers			
OEL TWA	2 mg/m³ (R - Respirable particulate matter)			
Notations and remarks	TLV® Basis: Pneumoconiosis			
Regulatory reference	ACGIH 2025			
Canada (Saskatchewan) - Occupational Exposure Limits				
Local name	Graphite, natural-all forms except graphite fibres			
OEL TWA	2 mg/m³ (respirable fraction)			
OEL STEL	4 mg/m³ (respirable fraction)			
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10			
sulfur (7704-34-9)				
Canada (Alberta) - Occupational Exposure Limits				
Local name	Sulphur			
OEL TWA	10 mg/m³			
Regulatory reference	Alberta Regulation 191/2021			

### 8.2. Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station. Use dust removal system, vacuum cleaner, air cleaner; cooling water cleaner (Hilti WMS system).

### 8.3. Individual protection measures/Personal protective equipment

### Personal protective equipment:

Dust formation: dust mask. In case of dust production: protective goggles. Gloves. Protective clothing.

Materials for protective clothing:		
Condition Material		
	Flame retardant protective clothing	

Hand protection:	
Wear leather gloves.	

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Туре	Material	Permeation	Thickness (mm)	Penetration
	leather gloves			

Eye protection:			
Safety glasses			
Туре	Field of application	Characteristics	
Safety glasses	Dust		

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:			
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended			
Device Filter type Condition		Condition	
		Dust protection	

### Personal protective equipment symbol(s):









### Other information:

Hazardous dust of the workpiece material may be generated during grinding / drilling and / or sanding operations. National regulations for dust exposure limit values have to be taken into consideration as part of the job hazard assessment.

Most of the dust generated during grinding is from the base material being ground and the potential hazard from this exposure must be evaluated. This dust may present a fire or dust explosion hazard and may present a serious health hazard.

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state Solid

Appearance No data available

Colour Silver-grey to copper-colored

Odour odourless

Odour threshold No data available No data available Relative evaporation rate (butylacetate=1) No data available Relative evaporation rate (ether=1) No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available

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> 400 °C Decomposition temperature Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20°C No data available Relative density No data available Solubility insoluble in water. Partition coefficient n-octanol/water (Log Pow) No data available Viscosity, kinematic No data available Explosive limits No data available

### 9.2. Other information

No additional information available

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

Reactivity The product is non-reactive under normal conditions of use, storage and transport. Product is not

explosive.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions 
No dangerous reactions known under normal conditions of use.

Conditions to avoid

No additional information available
Incompatible materials

No additional information available
Hazardous decomposition products

No additional information available
Hardening time:

No additional information available

### SECTION 11: Toxicological information

11.1. Information on toxicological effects	
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Acute toxicity (ilinalation)	Not dassilied	
copper (7440-50-8)		
LC50 Inhalation - Rat (Dust/Mist)	> 5.11 mg/l/4h (OECD 436 method)	
Tin (7440-31-5)		
LD50 oral rat	> 2000 mg/kg (OECD 423 method);No mortality with the given dose	
LD50 dermal rat	> 2000 mg/kg (OECD 402 method);No mortality with the given dose	
LC50 Inhalation - Rat	> 4.75 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity), Remarks on results: not determinable due to absence of adverse toxic effects	
LC50 Inhalation - Rat (Dust/Mist)	> 4.75 mg/l (OECD 403 method);No mortality with the given dose	
molybdenum (7439-98-7)		
LD50 oral rat	4233 mg/kg ((OECD 401 method); <tx:kft_read-across>)</tx:kft_read-across>	
LD50 dermal rat	> 2000 mg/kg ((OECD 402 method); <tx:kft_read-across>)</tx:kft_read-across>	
LC50 Inhalation - Rat (Dust/Mist)	> 1.93 mg/l/4h ((OECD 403 method); <tx:kft_read-across>)</tx:kft_read-across>	
graphite (7782-42-5)		
LD50 oral rat	> 2000 mg/kg (OECD 423)	

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graphite (7782-42-5)			
LC50 Inhalation - Rat	> 2000 mg/m³ (4h; OECD 403)		
Skin corrosion/irritation	Not classified		
Serious eye damage/irritation	Not classified		
Respiratory or skin sensitization	Not classified		
Germ cell mutagenicity	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity	Not classified		
STOT-single exposure	Not classified		
STOT-repeated exposure	Not classified		
Tin (7440-31-5)			
NOAEL (subacute, oral, animal/female, 28 days)	> 1000 mg/kg bodyweight/day (OECD 407 method)		
molybdenum (7439-98-7)			
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.1 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)		
Aspiration hazard	Not classified		
Likely routes of exposure	Inhalation.		
Potential adverse human health effects and symptoms	Irritation: may cause irritation to the respiratory system.		
Symptoms/effects after inhalation	May cause respiratory irritation.		
Symptoms/effects after eye contact	May cause severe irritation.		

# **SECTION 12: Ecological information**

12.1. Toxicity			
Hazardous to the aquatic environment, short–term (acute)	Not classified		
Hazardous to the aquatic environment, long-term (chronic)	Not classified		
Tin (7440-31-5)			
ErC50 algae	> 19.2 μg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Tin)		
LOEC (chronic)	0.2 mg/l (7d; Ceriodaphnia dubia; EPA 1002.0)		
molybdenum (7439-98-7)			
LC50 - Fish [1]	609 mg/l (96 h; Pimephales promelas; (OECD 203 method))		
EC50 - Crustacea [1]	1680 mg/l (48 h; Daphnia magna; (OECD 202 method))		
NOEC chronic fish	143 mg/l (32 d; Pimephales promelas)		
NOEC chronic crustacea	156 mg/l (21 d; Ceriodaphnia dubia)		
graphite (7782-42-5)			
LC50 - Fish [1]	> 100 mg/l (96h; Danio rerio; OECD 203)		
EC50 - Crustacea [1]	> 100 mg/l (48h; Daphnia magna; OECD 202)		
EC50 72h - Algae [1]	> 100 mg/l (72h; Pseudokirchnerella subcapitata; OECD 201)		

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12.2. Persistence and degradability	
copper (7440-50-8)	
Persistence and degradability	Not applicable for inorganic substances.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Tin (7440-31-5)	
Persistence and degradability	Not applicable for inorganic substances.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
molybdenum (7439-98-7)	
Persistence and degradability	Not established.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
graphite (7782-42-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
copper (7440-50-8)	
Bioaccumulative potential	Bioaccumulation: not applicable.
Tin (7440-31-5)	·
Bioaccumulative potential	Not applicable for inorganic substances.
molybdenum (7439-98-7)	
Bioaccumulative potential	Not established.
graphite (7782-42-5)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
copper (7440-50-8)	
Ecology - soil	Adsorbs into the soil.
Tin (7440-31-5)	
Surface tension	Not applicable (water solubility < 1 mg/l)
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Tin (7440-31-5)		
Ecology - soil	Adsorbs into the soil.	
molybdenum (7439-98-7)		
Ecology - soil	Adsorbs into the soil.	

#### 12.5. Other adverse effects

Ozone Not classified

Other information Do not allow the product, as is, to spread into the environment.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Regional waste regulation Disposal must be done according to official regulations.

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

environment.

Ecological waste information Avoid release to the environment. Hazardous waste due to toxicity.

# **SECTION 14: Transport information**

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated

### 14.6. Special precautions for user

#### **TDG**

Not regulated

### DOT

Not regulated

### **IMDG**

Not regulated

#### IATA

Not regulated

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## 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

### 15.1. National regulations

Synthetic diamond impregnated segments			
Canada DSL & NDSL Flags  All components of this product are listed, or excluded from listing, on the Canadian Domestic			
	Substances List (DSL) / Non-Domestic Substances List (NDSL)		

copper (7440-50-8)

Listed on the Canadian DSL (Domestic Substances List)

Tin (7440-31-5)

Listed on the Canadian DSL (Domestic Substances List)

molybdenum (7439-98-7)

Listed on the Canadian DSL (Domestic Substances List)

graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

sulfur (7704-34-9)

Listed on the Canadian DSL (Domestic Substances List)

# **SECTION 16: Other information**

SDS Major/Minor None
Issue date 11-11-2025
Revision date 11-11-2025
Supersedes 03-24-2025

Indication of changes				
Section	Changed item	Change	Comments	
	Legislation	Modified		

Full text of hazard classes and H-statements:	
H315	Causes skin irritation

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

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Abbreviations and acronyms:		
ATE	Acute Toxicity Estimate	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
ED	Endocrine disruptor	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
IOELV	Indicative Occupational Exposure Limit Value	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
N.O.S.	Not Otherwise Specified	
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	
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	
TRGS	Technical Rules for Hazardous Substances	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	

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Abbreviations and acronyms:		
WGK	Water Hazard Class	
vPvB	Very Persistent and Very Bioaccumulative	

SDS\_CA\_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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