

# Synthetic diamond impregnated segments

## Safety Data Sheet

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

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### 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	Floor Saw SP-S 300-600mm / 350-600mm
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#### 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

Hilti (Canada) Corp.  
2201 Bristol Circle  
Suite 700  
CA L6H 0J8 Oakville, Ontario  
Canada  
T +1905 8139200  
1-800-363-4458 toll free, F +1 905 813 9009  
[ca-sales@hilti.com](mailto:ca-sales@hilti.com)

##### Department issuing data specification sheet

Hilti AG  
Feldkircher Strasse 100  
FL 9494 Schaan  
Liechtenstein  
T +423 234 2111  
[product.compliance-power.tools@hilti.com](mailto:product.compliance-power.tools@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
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### 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	Phosphorus 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)
tungsten carbide	tungsten carbide	CAS-No.: 12070-12-1	15 - 60	Carc. 1B, H350 STOT RE 2, H373
copper	copper bronze, powder / copper, powder	CAS-No.: 7440-50-8	10 - 30	Not classified
nickel	nickel elemental nickel	CAS-No.: 7440-02-0	7 - 30	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372
Cobalt	cobalt	CAS-No.: 7440-48-4	3 - 13	Acute Tox. 4 (Oral), H302 Resp. Sens. 1B, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Repr. 1B, H360
Tungsten (W)	Tungsten (W) tungsten / wolfram	CAS-No.: 7440-33-7	3 - 13	Not classified
Manganese	Manganese colloidal manganese / manganese / manganese, chip / manganese, elemental / manganese, flakes / manganese, metal / manganese, slabs	CAS-No.: 7439-96-5	1 - 7	Not classified
Tin	Tin alpha-tin / silver matt / tin	CAS-No.: 7440-31-5	0.5 - 5	Not classified
red phosphorus	red phosphorus phosphorus / phosphorus, amorphous, red / phosphorus, red, amorphous	CAS-No.: 7723-14-0	0.1 - 1.5	Flam. Sol. 1, H228

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.

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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

Other medical advice or treatment	Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

Suitable extinguishing media	Use extinguishing agent suitable for surrounding fire. Water. Sand. Foam. Carbon dioxide.
Unsuitable extinguishing media	Do not use a heavy water stream.

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

Fire hazard	Not flammable.
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### 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
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### 6.2. Methods and materials for containment and cleaning up

Methods for cleaning up	Shovel into suitable and closed container for disposal.
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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.
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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Cobalt (7440-48-4)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Cobalt, elemental inorganic compounds, as Co
OEL TWA	0.02 mg/m <sup>3</sup>
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Cobalt, elemental and inorganic compounds (as Co)
VEMP (OEL TWA <sub>EV</sub> )	0.02 mg/m <sup>3</sup> Pi
Notations and remarks	C3, S(D), S(R)
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Hard metals, containing Cobalt and Tungsten Carbide, as Co
OEL TWA	0.005 mg/m <sup>3</sup> Thoracic
Notations and remarks	ACGIH Carcinogenicity category A2; IARC group 2A carcinogen; S(R) (substance with specific evidence of sensitization by respiratory route)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Hard metals containing Cobalt, as Co
OEL TWA	0.005 mg/m <sup>3</sup> (T - Thoracic particulate matter)
Notations and remarks	TLV® Basis: Pulm func change. Notations: DSEN; RSEN; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Cobalt and inorganic compounds as Co
OEL TWA	0.02 mg/m <sup>3</sup>
Notations and remarks	Pneumonitis
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Hard metals containing Cobalt, as Co
OEL TWA	0.005 mg/m <sup>3</sup> (T - Thoracic particulate matter)
Notations and remarks	TLV® Basis: Pulm func change. Notations: DSEN; RSEN; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Hard metals containing Cobalt, as Co
OEL TWA	0.005 mg/m <sup>3</sup> (T - Thoracic particulate matter)



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Notations and remarks	TLV® Basis: Pulm func change. Notations: DSEN; RSEN; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Cobalt and inorganic compounds, (as Co)
OEL TWA	0.02 mg/m <sup>3</sup>
OEL STEL	0.06 mg/m <sup>3</sup>
Notations and remarks	Designated substance
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Cobalt and inorganic compounds, (as Co)
OEL TWA	0.02 mg/m <sup>3</sup>
OEL STEL	0.06 mg/m <sup>3</sup>
Notations and remarks	Designated substance
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Cobalt and inorganic compounds, as Co
OEL TWAEV	0.02 mg/m <sup>3</sup>
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
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Hard metals containing Cobalt, as Co
OEL TWA	0.005 mg/m <sup>3</sup> (T - Thoracic particulate matter)
Notations and remarks	TLV® Basis: Pulm func change. Notations: DSEN; RSEN; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Cobalt and inorganic compounds, (as Co)
OEL TWA	0.02 mg/m <sup>3</sup>
OEL STEL	0.06 mg/m <sup>3</sup>
Notations and remarks	Designated Chemical Substance
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
copper (7440-50-8)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Copper
OEL TWA	0.2 mg/m <sup>3</sup> Fume 1 mg/m <sup>3</sup> Dusts/mists, as Cu

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Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Copper
VEMP (OEL TWAEV)	0.2 mg/m <sup>3</sup> Fume (as Cu) 1 mg/m <sup>3</sup> Dusts & mists (as Co)
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Copper, as Cu
OEL TWA	1 mg/m <sup>3</sup> Dusts and mists 0.2 mg/m <sup>3</sup> Fume
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Copper, as Cu
OEL TWA	0.2 mg/m <sup>3</sup> (Fume) 1 mg/m <sup>3</sup> (Dusts and mists)
Notations and remarks	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Copper Dusts and mists, as Cu
OEL TWA	1 mg/m <sup>3</sup>
Notations and remarks	Irr; GI; metal fume fever
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Copper, as Cu
OEL TWA	0.2 mg/m <sup>3</sup> (Fume) 1 mg/m <sup>3</sup> (Dusts and mists)
Notations and remarks	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Copper, as Cu
OEL TWA	0.2 mg/m <sup>3</sup> (Fume) 1 mg/m <sup>3</sup> (Dusts and mists)
Notations and remarks	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Copper, (as Cu)
OEL TWA	0.2 mg/m <sup>3</sup> Fume 1 mg/m <sup>3</sup> Dusts and mists

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OEL STEL	0.6 mg/m <sup>3</sup> Fume 3 mg/m <sup>3</sup> Dusts and mists
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Copper, (as Cu)
OEL TWA	0.2 mg/m <sup>3</sup> Fume 1 mg/m <sup>3</sup> Dusts and mists
OEL STEL	0.6 mg/m <sup>3</sup> Fume 3 mg/m <sup>3</sup> Dusts and mists
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Copper - Dusts and mists, as Cu
OEL TWAEV	1 mg/m <sup>3</sup>
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
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Copper, as Cu
OEL TWA	0.2 mg/m <sup>3</sup> (Fume) 1 mg/m <sup>3</sup> (Dusts and mists)
Notations and remarks	TLV® Basis: Irr; GI; metal fume fever
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Copper, (as Cu)
OEL TWA	0.2 mg/m <sup>3</sup> fume 1 mg/m <sup>3</sup> dusts and mists
OEL STEL	0.6 mg/m <sup>3</sup> fume 3 mg/m <sup>3</sup> dusts and mists
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Tin (7440-31-5)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Tin, as Sn - Metal
OEL TWA	2 mg/m <sup>3</sup>
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Tin and its inorganic compounds, (as Sn) (except stannane and indium tin oxide)
VEMP (OEL TWAEV)	2 mg/m <sup>3</sup> Pi
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety

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<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Tin
OEL TWA	2 mg/m <sup>3</sup>
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Tin, metal, as Sn
OEL TWA	2 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2025
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Tin and inorganic compounds,excluding Tin hydride, as Sn (1992) Metal
OEL TWA	2 mg/m <sup>3</sup>
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Tin, metal, as Sn
OEL TWA	2 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Tin, metal, as Sn
OEL TWA	2 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Tin, (as Sn): metal
OEL TWA	2 mg/m <sup>3</sup>
OEL STEL	4 mg/m <sup>3</sup>
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Tin, (as Sn): metal
OEL TWA	2 mg/m <sup>3</sup>
OEL STEL	4 mg/m <sup>3</sup>
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Tin - Metal
OEL TWAEV	2 mg/m <sup>3</sup>



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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
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Tin, metal, as Sn
OEL TWA	2 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: Pneumoconiosis
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Tin, (as Sn): metal
OEL TWA	2 mg/m <sup>3</sup>
OEL STEL	4 mg/m <sup>3</sup>
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
nickel (7440-02-0)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Nickel Elemental/metal
OEL TWA	1.5 mg/m <sup>3</sup>
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Nickel Metal
VEMP (OEL TWA <sub>EV</sub> )	1.5 mg/m <sup>3</sup> Id
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Nickel - Insoluble inorganic compounds, as Ni
OEL TWA	0.05 mg/m <sup>3</sup>
Notations and remarks	ACGIH Carcinogenicity category A1, IARC group 1 carcinogen; Nickel compounds are IARC group 1 carcinogens
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Nickel, Elemental/Metal, as Ni
OEL TWA	1.5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: Dermatitis; pneumoconiosis. Notations: A5 (Not Suspected as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Nickel as Ni Elemental [7440-02-0]
OEL TWA	1.5 mg/m <sup>3</sup>



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<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Nickel, Elemental/Metal, as Ni
OEL TWA	1.5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: Dermatitis; pneumoconiosis. Notations: A5 (Not Suspected as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Nickel, Elemental/Metal, as Ni
OEL TWA	1.5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: Dermatitis; pneumoconiosis. Notations: A5 (Not Suspected as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Nickel, (as Ni): Elemental
OEL TWA	1.5 mg/m <sup>3</sup> (inhalable fraction)
OEL STEL	3 mg/m <sup>3</sup> (inhalable fraction)
Notations and remarks	Designated substance
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Nickel, (as Ni): Elemental
OEL TWA	1.5 mg/m <sup>3</sup> (inhalable fraction)
OEL STEL	3 mg/m <sup>3</sup> (inhalable fraction)
Notations and remarks	Designated substance
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Nickel - Elemental/metal
OEL TWAEV	1 mg/m <sup>3</sup> (I - Inhalable fraction)
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
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Nickel, Elemental/Metal, as Ni
OEL TWA	1.5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: Dermatitis; pneumoconiosis. Notations: A5 (Not Suspected as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Nickel, (as Ni): Elemental

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OEL TWA	1.5 mg/m <sup>3</sup> (inhalable fraction)
OEL STEL	3 mg/m <sup>3</sup> (inhalable fraction)
Notations and remarks	Designated Chemical Substance
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
tungsten carbide (12070-12-1)	
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Hard metals, containing Cobalt and Tungsten Carbide, as Co
OEL TWA	0.005 mg/m <sup>3</sup> Thoracic
Notations and remarks	ACGIH Carcinogenicity category A2; IARC group 2A carcinogen; S(R) (substance with specific evidence of sensitization by respiratory route)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Hard metals containing Tungsten carbide, as Co
OEL TWA	0.005 mg/m <sup>3</sup> (T - Thoracic particulate matter)
Notations and remarks	TLV® Basis: Pneumonitis. Notations: RSEN; A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Hard metals containing Tungsten carbide, as Co
OEL TWA	0.005 mg/m <sup>3</sup> (T - Thoracic particulate matter)
Notations and remarks	TLV® Basis: Pneumonitis. Notations: RSEN; A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Hard metals containing Tungsten carbide, as Co
OEL TWA	0.005 mg/m <sup>3</sup> (T - Thoracic particulate matter)
Notations and remarks	TLV® Basis: Pneumonitis. Notations: RSEN; A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Hard metals containing Tungsten carbide, as Co
OEL TWA	0.005 mg/m <sup>3</sup> (T - Thoracic particulate matter)
Notations and remarks	TLV® Basis: Pneumonitis. Notations: RSEN; A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
Manganese (7439-96-5)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Manganese, elemental & inorganic compounds, as Mn
OEL TWA	0.2 mg/m <sup>3</sup>
Regulatory reference	Alberta Regulation 191/2021

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<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Manganese - Fumes, dust and compounds (as Mn)
VEMP (OEL TWAEV)	0.2 mg/m <sup>3</sup> Pi 0.05 mg/m <sup>3</sup> Pr
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Manganese - Elemental & inorganic compounds, as Mn
OEL TWA	0.02 mg/m <sup>3</sup> Respirable 0.1 mg/m <sup>3</sup> Inhalable
Notations and remarks	R (the substance has an adverse reproductive effect)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Manganese, elemental and inorganic compounds, as Mn
OEL TWA	0.02 mg/m <sup>3</sup> (R - Respirable particulate matter) 0.1 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Manganese
OEL TWA	0.02 mg/m <sup>3</sup>
Notations and remarks	CNS impair; A4
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Manganese, elemental and inorganic compounds, as Mn
OEL TWA	0.02 mg/m <sup>3</sup> (R - Respirable particulate matter) 0.1 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Manganese, elemental and inorganic compounds, as Mn
OEL TWA	0.02 mg/m <sup>3</sup> (R - Respirable particulate matter) 0.1 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Manganese and inorganic compounds, (as Mn)
OEL TWA	0.02 mg/m <sup>3</sup>
OEL STEL	0.6 mg/m <sup>3</sup>

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Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Manganese and inorganic compounds, (as Mn)
OEL TWA	0.2 mg/m <sup>3</sup>
OEL STEL	0.6 mg/m <sup>3</sup>
Regulatory reference	Occupational Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Manganese
OEL TWAEV	0.2 mg/m <sup>3</sup>
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
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Manganese, elemental and inorganic compounds, as Mn
OEL TWA	0.02 mg/m <sup>3</sup> (R - Respirable particulate matter) 0.1 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Notations and remarks	TLV® Basis: CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Manganese and inorganic compounds, (as Mn)
OEL TWA	0.2 mg/m <sup>3</sup>
OEL STEL	0.6 mg/m <sup>3</sup>
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
red phosphorus (7723-14-0)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Phosphorous (yellow)
OEL TWA	0.1 mg/m <sup>3</sup>
Regulatory reference	Alberta Regulation 191/2021
Tungsten (W) (7440-33-7)	
<b>Canada (Alberta) - Occupational Exposure Limits</b>	
Local name	Tungsten, as W - Metal and insoluble compounds
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Tungsten and compounds, in the absence of Cobalt (as W)

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VEMP (OEL TWA <sub>EV</sub> )	3 ppm Pr
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Tungsten and compounds in the absence of Cobalt, as W
OEL TWA	3 mg/m <sup>3</sup>
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Tungsten and compounds, in the absence of Cobalt, as W
OEL TWA	3 mg/m <sup>3</sup> (R - Respirable particulate matter)
Notations and remarks	TLV® Basis: Lung dam
Regulatory reference	ACGIH 2025
<b>Canada (New Brunswick) - Occupational Exposure Limits</b>	
Local name	Tungsten , as W (1979) Metal and insoluble compounds
OEL TWA	5 mg/m <sup>3</sup>
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Tungsten and compounds, in the absence of Cobalt, as W
OEL TWA	3 mg/m <sup>3</sup> (R - Respirable particulate matter)
Notations and remarks	TLV® Basis: Lung dam
Regulatory reference	ACGIH 2025
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Tungsten and compounds, in the absence of Cobalt, as W
OEL TWA	3 mg/m <sup>3</sup> (R - Respirable particulate matter)
Notations and remarks	TLV® Basis: Lung dam
Regulatory reference	ACGIH 2025
<b>Canada (Nunavut) - Occupational Exposure Limits</b>	
Local name	Tungsten, (as W): Metal and insoluble compounds
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
<b>Canada (Northwest Territories) - Occupational Exposure Limits</b>	
Local name	Tungsten, (as W): Metal and insoluble compounds
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Tungsten , as W - Metal and insoluble compounds

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OEL TWAEV	5 mg/m <sup>3</sup>
	10 mg/m <sup>3</sup>
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
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Tungsten and compounds, in the absence of Cobalt, as W
OEL TWA	3 mg/m <sup>3</sup> (R - Respirable particulate matter)
Notations and remarks	TLV® Basis: Lung dam
Regulatory reference	ACGIH 2025
<b>Canada (Saskatchewan) - Occupational Exposure Limits</b>	
Local name	Tungsten, (as W): metal and insoluble compounds
OEL TWA	5 mg/m <sup>3</sup>
OEL STEL	10 mg/m <sup>3</sup>
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

### 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.

<b>Materials for protective clothing:</b>	
<b>Condition</b>	<b>Material</b>
	Flame retardant protective clothing

<b>Hand protection:</b>				
Wear leather gloves.				
<b>Type</b>	<b>Material</b>	<b>Permeation</b>	<b>Thickness (mm)</b>	<b>Penetration</b>
	leather gloves			

<b>Eye protection:</b>		
Safety glasses		
<b>Type</b>	<b>Field of application</b>	<b>Characteristics</b>
Safety glasses	Dust	

<b>Skin and body protection:</b>	
Wear suitable protective clothing	

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<b>Respiratory protection:</b>		
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended		
<b>Device</b>	<b>Filter type</b>	<b>Condition</b>
		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
pH	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
Decomposition temperature	> 400 °C
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



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### 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

Cobalt (7440-48-4)	
LD50 oral rat	550 mg/kg bodyweight (OECD 425 method)
LD50 oral	550 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 15 day(s))
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
nickel (7440-02-0)	
LD50 oral rat	> 9000 mg/kg (OECD 401 method)
LD50 oral	9000 mg/kg
LC50 Inhalation - Rat	≥ 10.2 mg/l (1 h)
tungsten carbide (12070-12-1)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation - Rat	> 5.3 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

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Manganese (7439-96-5)	
LD50 oral rat	> 2000 mg/kg (OECD 420 method)
LD50 oral	2500 mg/kg
LC50 Inhalation - Rat	> 5.14 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
LC50 Inhalation - Rat (Dust/Mist)	> 5.14 mg/l/4h (OECD 403 method)
red phosphorus (7723-14-0)	
LD50 oral	15000 mg/kg
Tungsten (W) (7440-33-7)	
LD50 oral rat	> 2000 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
LC50 Inhalation - Rat	> 5.4 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	> 5.4 mg/l/4h (OECD 403 method)
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
Cobalt (7440-48-4)	
IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
nickel (7440-02-0)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
tungsten carbide (12070-12-1)	
IARC group	2A - Probably carcinogenic to humans
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)
nickel (7440-02-0)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.1 mg/m <sup>3</sup> (2 years; (OECD 451 method))
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
tungsten carbide (12070-12-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Tungsten (W) (7440-33-7)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day (OECD 422 method)

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Tungsten (W) (7440-33-7)	
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.652 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-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

Cobalt (7440-48-4)	
LC50 - Fish [1]	> 100 (96h; Danio rerio; OECD 203)
ErC50 algae	0.144 mg/l
EC50 72h - Algae [1]	0.035 mg/l (Pseudokirchnerella subcapitata)
NOEC chronic crustacea	0.00683 mg/l
NOEC (acute)	3.2 mg/l (48h; Daphnia magna; OECD 202)

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)

nickel (7440-02-0)	
LC50 - Fish [1]	15.3 mg/l (96h; Oncorhynchus mykiss (Rainbow trout))
EC50 - Other aquatic organisms [1]	0.0276 mg/l (48h; Ceriodaphnia dubia)
EC50 72h - Algae [1]	0.0815 mg/l (72h; Pseudokirchneriella subcapitata; (OECD 201 method))
NOEC chronic fish	0.057 mg/l (32 d; Pimephales promelas)
NOEC chronic crustacea	0.0037 mg/l (10 d; Ceriodaphnia dubia; (OECD 211 method))

tungsten carbide (12070-12-1)	
LC50 - Fish [1]	> 1000 mg/l (96 h; Danio rerio; (OECD 403 method))
EC50 - Crustacea [1]	> 1000 mg/l (48 h; Daphnia magna; (OECD 202 method))
ErC50 algae	≥ 31 mg/l (Tungsten (W); 72 h; Raphidocelis subcapitata; (OECD 201 method))
EC50 72h - Algae [1]	> 1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	≥ 9.8 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '38 d'

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Manganese (7439-96-5)	
LC50 - Fish [1]	> 3.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value)
EC50 - Crustacea [1]	> 1.6 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)
ErC50 algae	4.5 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value)
Tungsten (W) (7440-33-7)	
LC50 - Fish [1]	> 181 mg/l (96 h; Danio rerio; (OECD 203 method); <tx:KFT_READ-ACROSS>)
EC50 - Crustacea [1]	> 163 mg/l (48 h; Daphnia magna; (OECD 202 method); <tx:KFT_READ-ACROSS>)
ErC50 algae	5.76 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method); <tx:KFT_READ-ACROSS>)
<b>12.2. Persistence and degradability</b>	
Cobalt (7440-48-4)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
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)
nickel (7440-02-0)	
Persistence and degradability	Not applicable for inorganic substances.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
tungsten carbide (12070-12-1)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

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Manganese (7439-96-5)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
red phosphorus (7723-14-0)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Tungsten (W) (7440-33-7)	
Persistence and degradability	Not applicable for inorganic substances.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>12.3. Bioaccumulative potential</b>	
Cobalt (7440-48-4)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
BCF - Fish [1]	< 10 (Pisces, Fresh water, Literature study)
BCF - Other aquatic organisms [1]	< 300 (Invertebrata, Literature study)
copper (7440-50-8)	
Bioaccumulative potential	Bioaccumulation: not applicable.
Tin (7440-31-5)	
Bioaccumulative potential	Not applicable for inorganic substances.
nickel (7440-02-0)	
Bioaccumulative potential	Not applicable for inorganic substances.
BCF - Other aquatic organisms [1]	8 – 45 (≤ 4 week(s), Cambarus sp., Flow-through system, Fresh water, Experimental value, Fresh weight)
tungsten carbide (12070-12-1)	
Bioaccumulative potential	No bioaccumulation data available.
Manganese (7439-96-5)	
Bioaccumulative potential	not bioaccumulable.
red phosphorus (7723-14-0)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Tungsten (W) (7440-33-7)	
Bioaccumulative potential	Not applicable for inorganic substances.

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Tungsten (W) (7440-33-7)	
BCF - Fish [1]	0 – 1.23 l/kg (pH 7.2; ca. 7.5 g/L; Poecilia reticulata; EPA OPP 72-6)

### 12.4. Mobility in soil

Cobalt (7440-48-4)	
Ecology - soil	No (test)data on mobility of the substance available.
copper (7440-50-8)	
Ecology - soil	Adsorbs into the soil.
Tin (7440-31-5)	
Surface tension	Not applicable (water solubility < 1 mg/l)
Ecology - soil	Adsorbs into the soil.
nickel (7440-02-0)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.
tungsten carbide (12070-12-1)	
Ecology - soil	Adsorbs into the soil.
Manganese (7439-96-5)	
Ecology - soil	No (test)data on mobility of the substance available.
red phosphorus (7723-14-0)	
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants.
Tungsten (W) (7440-33-7)	
Surface tension	Not required
Ecology - soil	Highly mobile in soil.
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, Literature study)

### 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



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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
No supplementary information available			

### 14.6. Special precautions for user

#### TDG

Not regulated

#### DOT

Not regulated

#### IMDG

Not regulated

#### IATA

Not regulated

### 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)
Cobalt (7440-48-4)	
Listed on the Canadian DSL (Domestic Substances List)	
copper (7440-50-8)	
Listed on the Canadian DSL (Domestic Substances List)	
Tin (7440-31-5)	
Listed on the Canadian DSL (Domestic Substances List)	



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nickel (7440-02-0)
Listed on the Canadian DSL (Domestic Substances List)
tungsten carbide (12070-12-1)
Listed on the Canadian DSL (Domestic Substances List)
Manganese (7439-96-5)
Listed on the Canadian DSL (Domestic Substances List)
red phosphorus (7723-14-0)
Listed on the Canadian DSL (Domestic Substances List)
Tungsten (W) (7440-33-7)
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	04-08-2025

Indication of changes			
Section	Changed item	Change	Comments
	Legislation	Modified	

Full text of hazard classes and H-statements:	
H228	Flammable solid
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure.
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



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Abbreviations and acronyms:	
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
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



# Synthetic diamond impregnated segments

## Safety Data Sheet

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

Abbreviations and acronyms:	
VOC	Volatile Organic Compounds
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.