

# Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015) Issue date: 04/05/2024 Revision date: 04/05/2024

Supersedes: 12/15/2015 Version: 2.0

# **SECTION 1: Identification**

#### 1.1. Product identifier

Product form Article

Trade name Synthetic diamond impregnated segments

Product code BU Diamond

Other means of identification AG Disc - P 100-230mm, MCS, LCS, HCL, MCL, SPX-H Speed >35mm, SP-H Speed >35mm,

AG CW-P 100-180mm, AG Disc SP-T 100-230mm, AG CW-SPX 100-125mm / 125-150mm / 150mm / 180mm, Bench Saw SP-S 300-400mm / 450-500mm, Floor Saw SP-S 450-500mm / 500mm, Gas Saw - SPX-EQD 300mm / 300-305mm / 300-400mm, AG Disc - SP 100-150mm / 180-230mm, AG Disc - SPX-EQD 180-230mm / 230mm, AG CW-SP 180mm, PU 52mm

#### 1.2. Recommended use and restrictions on use

Recommended use Grinding materials
Restrictions on use For professional use only

#### 1.3. Supplier

Supplier Department issuing data specification sheet

Hilti (Canada) Corp. Hilti AG

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### 1.4. Emergency telephone number

Emergency number Emergency CONTACT (24-Hour-Number)

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

# **SECTION 2: Hazard 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

# 2.4. Unknown acute toxicity (GHS CA)

No data available

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

#### 3.1. Substances

Not applicable

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#### 3.2. Mixtures

Comments

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

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Nickel	nickel ALCAN 756 / C.I. 77775 / EL12 / elemental nickel / FIBREX / FIBREX P / Ni 0901-S / Ni 270 / Ni 4303T / nickel / nickel 200 / nickel 201 / nickel 205 / nickel 270 / NP 2	CAS-No.: 7440-02-0	1 - 30	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372
Cobalt	cobalt aquacat / CI 77320 / cobalt / cobalt, granulated / cobalt-59 / super cobalt	CAS-No.: 7440-48-4	1 - 10	Acute Tox. 4 (Oral), H302 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Repr. 1B, H360
Sulfur	sulfur	CAS-No.: 7704-34-9	0 - 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 Irritation: may cause irritation to the respiratory system.

symptoms

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

# **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.

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#### 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media Do not use a heavy water stream.

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

Fire hazard Not flammable.

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

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

# **SECTION 6: Accidental release measures**

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

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.

#### 6.3. Reference to other sections

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

# **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

No additional information available

#### 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

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Hand protection:				
Wear leather gloves.				
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		
		Dust protection

#### Personal protective equipment symbol(s):









#### Other information:

Hazardous dust of the workpiece material may be generated during grinding / drilling / cutting 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 / drilling / cutting and/or sanding operations is from the base material being worked on and the potential hazard from this exposure must be evaluated separately. This dust may present a health hazard, a fire or dust explosion 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

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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

Germ cell mutagenicity

Carcinogenicity

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 inf	ormation
11.1. Information on toxicological effe	ects
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))
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)
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitization	Not classified

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Not classified

Not classified



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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
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Nickel (7440-02-0)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.1 mg/m³ (2 years; (OECD 451 method))
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
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**

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)	
EC50 72h - Algae [1]	0.035 mg/l (Pseudokirchnerella subcapitata)
NOEC (acute)	3.2 mg/l (48h; Daphnia magna; OECD 202)
12.2. Persistence and degradability	

12.2. Persistence and degradability		
Cobalt (7440-48-4)		
Not rapidly degradable		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
Nickel (7440-02-0)		
Not rapidly degradable		
Persistence and degradability	Not applicable for inorganic substances.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	

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12.3. Bioaccumulative pot	tential
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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)	
Nickel (7440-02-0)		
Bioaccumulative potential Not applicable for inorganic substances.		
BCF - Other aquatic organisms [1]	1] 8 – 45 (≤ 4 week(s), Cambarus sp., Flow-through system, Fresh water, Experimental value, Fresh weight)	

#### 12.4. Mobility in soil

Cobalt (7440-48-4)		
Ecology - soil No (test)data on mobility of the substance available.		
Nickel (7440-02-0)		
Surface tension No data available in the literature		
Ecology - soil No (test)data on mobility of the substance available.		

#### 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.

Ecology - waste materials Avoid release to the environment. Hazardous waste due to toxicity.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID
14.1. UN number or ID number			
Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN 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

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ADR	IMDG	IATA	RID
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

## 14.6. Special precautions for user

#### **Overland transport**

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

### Rail transport

Not regulated

# 14.7. Maritime transport in bulk according to IMO instruments

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)

Nickel (7440-02-0)

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

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Indication of changes			
Section	Changed item	Change	Comments
1.3	Department issuing data specification sheet	Modified	
1.4	Emergency number	Modified	
3.2	Composition/information on ingredients	Modified	

Full text of H-statements:		
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
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.	

Abbreviations and acronyms:		
CAS-No.	Chemical Abstract Service number	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
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 disrupting properties	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	

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Abbreviations and acronyms:		
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	
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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