

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 4/5/2024Issue date: 4/5/2024Supersedes: 10/24/2018Version: 2.0

SECTION 1: Identification

1.1. Identification	
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 Restrictions on use Grinding materials For professional use only

1.3. Supplier

Supplier Hilti, Inc. Legacy Tower, Suite 1000 7250 Dallas Parkway US– TX 75024 Plano USA T +1 9724035800 1-800-879-8000 toll free - F +1 918 254 0522

1.4. Emergency telephone number

Emergency number

Department issuing data specification sheet Hilti AG Feldkircherstraße 100 FL– 9494 Schaan Liechtenstein T +423 234 2111 product.compliance-power.tools@hilti.com

Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 101022 (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable



Safety Data Sheet

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

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.

Name	Product identifier	%	GHS-US classification
Nickel	CAS-No.: 7440-02-0	1 - 30	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372
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	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) Potential adverse human health effects and Irritation: may cause irritation to the respiratory system. symptoms Symptoms/effects after inhalation May cause respiratory irritation. Symptoms/effects after eye contact May cause severe irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

sures
iishing media
Use extinguishing agent suitable for surrounding fire. Water. Sand. Foam. Carbon dioxide.
Do not use a heavy water stream.
e chemical
Not flammable.
d precautions for fire-fighters
Do not enter fire area without proper protective equipment, including respiratory protection.



Safety Data Sheet

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

SECTION 6: Accidental release	measures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
No additional information available	
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
No additional information available	
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	Shovel into suitable and closed container for disposal.
6.4. Reference to other sections	
For further information refer to section 8: "Exp	posure controls/personal protection". For further information refer to section 13.
SECTION 7: Handling and stora	age
7.1. Precautions for safe handling	
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.
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

Sures Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

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

Synthetic diamond impregnated segments		
No additional information available		
Cobalt (7440-48-4)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Cobalt and inorganic compounds as Co	
ACGIH OEL TWA	0.02 mg/m³	
Remark (ACGIH)	Pneumonitis	
Regulatory reference	ACGIH 2024	
USA - ACGIH - Biological Exposure Indices		
Local name	Cobalt and inorganic compounds	
BEI	15 $\mu\text{g/I}$ Parameter: Cobalt - Medium: urine - Sampling time: End of shift at end of workweek - Notations: Ns	



Safety Data Sheet

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

Cobalt (7440-48-4)		
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Cobalt metal, dust, and fume (as Co)	
OSHA PEL TWA [1]	0.1 mg/m ³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Nickel (7440-02-0)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Nickel, elemental	
ACGIH OEL TWA	1.5 mg/m ³ (Inhalable fraction)	
Remark (ACGIH)	TLV® Basis: Dermatitis; pneumoconiosis. Notations: A5 (Not Suspected as a Human Carcinogen)	
Regulatory reference	ACGIH 2024	
USA - ACGIH - Biological Exposure Indices		
Local name	Nickel and inorganic compounds	
BEI	 5 μg/l Parameter: Nickel - Medium: urine after exposure to elemental Nickel and poorly soluble compounds - Sampling time: Post-shift at end of workweek - Notations: B 30 μg/l Parameter: Nickel - Medium: urine after exposure to soluble compounds - Sampling time: Post-shift at end of workweek - Notations: B 	
Regulatory reference	ACGIH 2024	
USA - OSHA - Occupational Exposure Limits		
Local name	Nickel	
OSHA PEL TWA [1]	1 mg/m ³ metal and insoluble compounds (as Ni) 1 mg/m ³ soluble compounds (as Ni)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Sulfur (7704-34-9)		
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



Safety Data Sheet

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

Hand protection:					
Wear leather gloves.					
Туре	Material	Permeation Thickness (mm)		n)	Penetration
	leather gloves				
Eye protection:					
Safety glasses					
Туре	Field of application		Characteristics		
Safety glasses Dust		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

Solid
Silver-grey to copper-colored
odourless
No data available



Safety Data Sheet

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

Relative density	No data available
Solubility	insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	> 400 °C
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive limits	No data available
Explosive properties	No data available
Oxidising properties	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

1.1. Information on toxicological ef	fects
cute toxicity (oral)	Not classified 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)



Safety Data Sheet

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

Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
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/m ³ (2 years; (OECD 451 method))
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
Viscosity, kinematic	No data available
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

I2.1. Toxicity		
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		
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.	
04/05/2024	S.O.S.H.A on	7/12



Safety Data Sheet

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

Nickel (7440-02-0)		
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
12.3. Bioaccumulative potential		
Cobalt (7440-48-4)		
BCF - Fish [1]	< 10 (Pisces, Fresh water, Literature study)	
BCF - Other aquatic organisms [1]	< 300 (Invertebrata, Literature study)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Nickel (7440-02-0)		
BCF - Other aquatic organisms [1]	8 – 45 (≤ 4 week(s), Cambarus sp., Flow-through system, Fresh water, Experimental value, Fresh weight)	
Bioaccumulative potential	Not applicable for inorganic substances.	
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		
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	

Ecology - waste materials

Dispose in a safe manner in accordance with local/national regulations environment. Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID				
ADR	IMDG	ΙΑΤΑ	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	



Safety Data Sheet

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

ADR	IMDG	ΙΑΤΑ	RID
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

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. US Federal regulations

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

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.		
Cobalt	CAS-No. 7440-48-4	1 - 10%
Nickel	CAS-No. 7440-02-0	1 - 30%

Nickel (7440-02-0)

CERCLA RQ

100 lb

15.2. International regulations

Cobalt (7440-48-4)
Listed on IARC (International Agency for Research on Cancer)
Listed as carcinogen on NTP (National Toxicology Program)



Safety Data Sheet

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

Nickel (7440-02-0)	
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)	
15.3. US State regulations	

WARNING:

This product can expose you to Cobalt metal powder, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date 04/05/2024

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	



Safety Data Sheet

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

Abbreviations and acronyms		
ED	Endocrine disrupting properties	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	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	
РВТ	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	

NFPA fire hazard

NFPA reactivity

Hazard Rating Health

1 Slight Hazard - Irritation or minor reversible injury possible

0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and

0 - Material that in themselves are normally stable, even under fire

sand.

conditions.

0



Safety Data Sheet

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

Flammability	0 Minimal Hazard - Materials that will not burn
Physical	0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT
	react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:			
Section	Changed item	Change	Comments
1	Emergency number	Modified	
1	Department issuing data specification sheet	Modified	
3	Composition/information on ingredients	Modified	

SDS_US_Hilti

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