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Safety Data Sheet acc. to OSHA HCS

Printing date 06/01/2022 Version 5.0 Last revision 06/01/2022

1 Identification

- · Product name: Diamond Wafering Blades
- · Part number:

60-10040, 60-10045, 60-30065, 60-30070, 60-40070, 60-40075 60-20065 - 60-20104

- · Application of the substance / the mixture Abrasive blade
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Allied High Tech Products Inc. 2376 East Pacifica Place USA-RANCHO DOMINGUEZ, CA 90220 **USA** info@alliedhightech.com

- · Information department: Product safety department
- · Emergency telephone number:

During normal opening times: +1 (310) 635-2466

Chemtrec: +1 (202) 483-7616

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Sensitization - Respiratory 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ Cell Mutagenicity 2 H341 Suspected of causing genetic defects.

Carcinogenicity 2 H351 Suspected of causing cancer.

Toxic to Reproduction 1A H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to the gastro-intestinal tract through prolonged or repeated

exposure.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Sensitization - Skin 1 H317 May cause an allergic skin reaction.

Aquatic Acute 2 H401 Toxic to aquatic life.

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· Additional information:

Based on health effects for dust

All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS08

· Signal word Danger

· Hazard-determining components of labeling:

cobalt

nickel powder (particle diameter < 1 mm)

lead

· Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Suspected of causing cancer.

May damage fertility or the unborn child.

Causes damage to the gastro-intestinal tract through prolonged or repeated exposure.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

[In case of inadequate ventilation] wear respiratory protection.

If on skin: Wash with plenty of water.

If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see on this label).

Get medical advice/attention if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

Collect spillage.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

· Hazardous components and components with occupational exposure limits:	
409-21-2 silicon carbide	20-30%

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(Contd. of page 2) 7440-50-8 copper 20-<25% Aquatic Chronic 2, H411 1314-13-2 zinc oxide 5-10% 🔁 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 7440-33-7 tungsten 5-10% 7440-48-4 cobalt 5-10% Sensitization - Respiratory 1, H334; Germ Cell Mutagenicity 2, H341; Carcinogenicity 1B, H350; Toxic to Reproduction 1B, H360; 🕎 Sensitization - Skin 1, H317; Aquatic Chronic 4, H413 nickel powder (particle diameter < 1 mm) 7440-02-0 2.5-<5% & Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 1, H372; 🗘 Sensitization - Skin 1, H317; Aquatic Chronic 3, H412 7440-31-5 1-5% tin 7440-47-3 chromium 1-5% 7439-92-1 lead 0.25-≤1% 🗞 Carcinogenicity 2, H351; Toxic to Reproduction 1A, H360; 🚱 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 · Non-hazardous components: 7439-89-6 iron 40-50% 9003-35-4 Phenolic Polymer 30-40% 7782-40-3 Diamond 1-5%

· Additional information:

Product may contain many or all of the above ingredients.

The diamond concentration stated is for the high concentration, diamond metal bond blades. The diamond concentration for the low concentration blades is between 0.1 -< 1%.

The specific chemical identity and/or exact percentage of the composition has been withheld as a trade secret.

* 4 First-aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed

Breathing difficulty

Eye irritation

Coughing

Allergic reactions

Dermatitis

Dermatitis

· Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

Water spray

Carbon dioxide

Alcohol resistant foam

Use fire fighting measures that suit the environment.

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- · Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Wear fully protective suit.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources

Environmental precautions:

Do not allow product to reach sewage system or any water course.

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

No special requirements.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep receptacle tightly sealed.

Store receptacle in a well ventilated area.

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Comj	ponents with limit values that require monitoring at the workplace:
409-2	1-2 silicon carbide
	Long-term value: 15* 5** mg/m³ fibrous dust: *total dust **respirable fraction
	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
	Long-term value: 10* 3** mg/m³ fibrous dust:0.1 f/cc;, nonfibrous:*inh.,**resp.
7440-	50-8 copper
	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume

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REL	Long-term value: 1* 0.1** mg/m³ as Cu *dusts and mists **fume
TLV	Long-term value: 1* 0.2** mg/m³ *dusts and mists; **fume; as Cu
1314-	-13-2 zinc oxide
PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction and fume
REL	Short-term value: 10** mg/m³ Long-term value: 5 mg/m³ Ceiling limit value: 15* mg/m³ *dust only **fume
TLV	Short-term value: 10* mg/m³ Long-term value: 2* mg/m³ *as respirable fraction
7440-	-33-7 tungsten
PEL	and insoluble compounds, as We
REL	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ as W
TLV	Long-term value: 3* mg/m³ as W; * respirable fraction
7440-	-48-4 cobalt
PEL	Long-term value: 0.1* mg/m³ as Co; *for metal dust and fume
REL	Long-term value: 0.05 mg/m³ as Co; metal dust & fume
TLV	Long-term value: 0.02* mg/m³ *inh. fraction; DSEN, RSEN, BEI, A3
7440-	-02-0 nickel powder (particle diameter < 1 mm)
PEL	Long-term value: 1 mg/m ³
REL	Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A
TLV	Long-term value: 1.5* mg/m³ elemental, *inhalable fraction, A5, BEI
7440-	-31-5 tin
PEL	Long-term value: 2 mg/m³ metal
REL	Long-term value: 2 mg/m ³
	Long-term value: 2* mg/m³ metal, *inh. fraction
	47-3 chromium
I	Long-term value: 1 mg/m ³
	Long-term value: 0.5* mg/m³ *metal+inorg.compds.as Cr;See Pocket Guide App. C
TLV	Long-term value: 0.003* 0.5** mg/m³ inh. fraction, *as Cr(III): A4,**metal

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7439-92-1 lead

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-	
PEL	Long-term value: 0.05* mg/m ³
	*see 29 CFR 1910.1025
REL	Long-term value: 0.05* mg/m ³
	*8-hr TWA ;See PocketGuide App.C
TIV	Long-term value: 0.05* mg/m ³
12 *	
	*and inorganic compds., as Pb; BEI, A3
·Ingr	edients with biological limit values:
	<u> </u>
7440	-48-4 cobalt
BEI	15 μg/L
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Cobalt (nonspecific)
	· · ·
7440	-02-0 nickel powder (particle diameter < 1 mm)
BEI	5 μg/L
	Medium: urine
	Time: post-shift at end of workweek
	Parameter: Nickel (background)

7440-47-3 chromium

30 μg/L Medium: urine

BEI 0.7 μg/L

Medium: urine

Time: end of shift at end of workweek

Time: post-shift at end of workweek Parameter: Nickel (background)

Parameter: Total chromium (population based)

7439-92-1 lead

BEI 200 μg/L

Medium: blood Time: not critical Parameter: Lead

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

- · Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
- · Protection of hands:

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

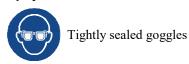
Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· Eye protection:



9 Physical and chemical properties

Information on basic physical and chemical properties General Information Appearance: Form: Color: According to product specification Odorless Odor threshold: Not determined. PH-value: Not applicable. Change in condition Melting point/Melting range: Boiling point/Melting range: Undetermined. Flash point: Not applicable. Flammability (solid, gaseous): Not determined. Decomposition temperature: Not determined. Auto igniting: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Not determined. Vapor pressure: Not determined. Vapor pressure: Not applicable. Density: Not applicable. Solubility in / Miscibility with Water: Insoluble. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not applicable. Solvent content: VOC con		
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Melting point/Melting range: Boiling point/Boiling range: Visab point: Undetermined. Undetermined. Flash point: Not applicable. Flammability (solid, gaseous): Not determined. Decomposition temperature: Not determined. Auto igniting: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. Explosion limits: Lower: Not determined. Upper: Not determined. Vapor pressure: Not applicable. Density: Not determined. Vapor density Not applicable. Evaporation rate Not applicable. Solubility in / Miscibility with Water: Insoluble. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not applicable. Not applicable. Solvent content: VOC content: 0.00 %	· pH-value:	Not applicable.
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 Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Insoluble. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not applicable. Solvent content: VOC content: 0.00 % 	· Vapor pressure:	Not applicable.
· Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic: Not applicable. Kinematic: Not applicable. · Solvent content: VOC content: 0.00 %	Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined. Not applicable. Not applicable.
· Viscosity: Dynamic: Not applicable. Kinematic: Not applicable. · Solvent content: VOC content: 0.00 %		
Dynamic: Not applicable. Kinematic: Not applicable. Solvent content: VOC content: 0.00 %		; not determined.
VOC content: 0.00 %	Dynamic:	
C-P-1		0.00 %
Solids content: 100.0 %	Solids content:	100.0 %
• Other information No further relevant information available.	· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.

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· Conditions to avoid

Freezing conditions

Keep away from heat.

Keep away from sources of ignition - No smoking.

Keep away from open flames. - No smoking.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

*11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

LD/LC50 values that are relevant for classification:		
409-21-	2 silicon carbide	
Oral	LD50 >2,000 mg/kg (rat)	
Dermal	LD50 >2,000 mg/kg (rat)	
1314-13	1314-13-2 zinc oxide	
Oral	LD50 >5,000 mg/kg (rat)	
7440-48-4 cobalt		
Oral	LD50 6,170 mg/kg (rat)	
7440-02-0 nickel powder (particle diameter < 1 mm)		
Dermal	LD50 >5,000 mg/kg (rat)	

- Primary chemical irritant effect:
- · on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization:

Sensitization possible through inhalation.

Sensitization possible through skin contact.

· Additional toxicological information:

Abrasive eye irritant

Abrasive skin irritant

· Carcinogenic categories

· IARC (Int	ternational Agency for Research on Cancer)	
409-21-2	silicon carbide	2A
7440-48-4	cobalt	2B
7440-02-0	nickel powder (particle diameter < 1 mm)	2B
7440-47-3	chromium	3
7439-92-1	lead	2B
· NTP (Nati	ional Toxicology Program)	
7440-48-4	cobalt	R
7440-02-0	nickel powder (particle diameter < 1 mm)	R
7439-92-1	lead	R
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.

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- · Mobility in soil No further relevant information available.
- · Ecotoxical effects:
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Contact waste processors for recycling information.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number · DOT, ADN, IMDG, IATA	not regulated	
· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
· Packing group · DOT, IMDG, IATA	not regulated	
· Environmental hazards: · Marine pollutant:	No Yes (DOT)	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex II of MA		
the IBC Code	Not applicable.	
· UN "Model Regulation":	not regulated	

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

Sara		
· Section 35	Section 355 (extremely hazardous substances):	
None of the	None of the ingredients is listed.	
· Section 31	Section 313 (Specific toxic chemical listings):	
7440-50-8	copper	
1314-13-2	zinc oxide	
7440-48-4	cobalt	
7440-02-0	nickel powder (particle diameter < 1 mm)	

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7440-47-3 chromium	
7439-92-1 lead	
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
7440-48-4 cobalt	
7439-92-1 lead	
Proposition 65	
· Chemicals known to cause cancer:	
7440-48-4 cobalt	
7440-02-0 nickel powder (particle diameter < 1 mm)	
7439-92-1 lead	
· Chemicals known to cause reproductive toxicity for females:	

· Chemicals known to cause reproductive toxicity for males:

7439-92-1 lead

7439-92-1 lead

· Chemicals known to cause developmental toxicity:

7439-92-1 lead

· National regulations:

- · Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Services
- · Contact: Pablo Mendoza
- · Last revision / supersedes version: 06/01/2022 / 4.1
- · Supersedes date: 10/01/2021 · Abbreviations and acronyms:
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- BEI: Biological Exposure Limit
- Sensitization Respiratory 1: Respiratory sensitisation Category 1
- Sensitization Skin 1: Skin sensitisation Category 1
- Germ Cell Mutagenicity 2: Germ cell mutagenicity Category 2
- Carcinogenicity 1B: Carcinogenicity Category 1B
- Carcinogenicity 2: Carcinogenicity Category 2
- Toxic to Reproduction 1A: Reproductive toxicity Category 1A
- Toxic to Reproduction 1B: Reproductive toxicity Category 1B
- Specific Target Organ Toxicity Repeated Exposure 1: Specific target organ toxicity (repeated exposure) Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment acute aquatic hazard Category 1
- Aquatic Acute 2: Hazardous to the aquatic environment acute aquatic hazard Category 2
- Aquatic Chronic 1: Hazardous to the aquatic environment long-term aquatic hazard Category 1

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Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard — Category 4 · * Data compared to the previous version altered.

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