

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**1 Identification**

- **Product name:** Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim
- **Part number:**  
65-10005 - 65-10030  
75-10005 - 75-10045
- **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

Carc. 2 H351 Suspected of causing cancer.

STOT RE 1 H372 Causes damage to the liver, the blood and the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Additional information:** Based on health effects for dust

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**Product name: Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim**

(Contd. of page 1)

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*nickel*

· **Hazard statements**

*Harmful if inhaled.*

*May cause an allergic skin reaction.*

*Suspected of causing cancer.*

*Causes damage to the liver, the blood and the gastro-intestinal tract through prolonged or repeated exposure.*

*Route of exposure: Oral, Inhalation.*

· **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.*

*Use only outdoors or in a well-ventilated area.*

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

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

*If on skin: Wash with plenty of water.*

*IF INHALED: Remove person to fresh air and keep comfortable for breathing.*

*IF exposed or concerned: Get medical advice/attention.*

*Call a poison center/doctor if you feel unwell.*

*Specific treatment (see on this label).*

*Get medical advice/attention if you feel unwell.*

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

*Wash contaminated clothing before reuse.*

*Store locked up.*

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

· **Additional information:** Hazard statements are based on health effects from nickel dust.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



*Health = 2*

*Fire = 0*

*Reactivity = 1*

· **HMIS-ratings (scale 0 - 4)**



*Health = 2*

*Fire = 0*

*Reactivity = 1*

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

(Contd. on page 3)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**Product name: Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim**

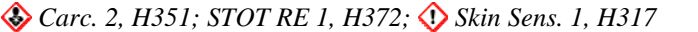
(Contd. of page 2)

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

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

· **Hazardous Components:**

7440-02-0	nickel		50-100%
-----------	--------	--	---------

· **Non-hazardous Components:**

7782-40-3	Diamond		2.5-10%
-----------	---------	--	---------

- **Additional information:** The exact percentage or concentration of the above ingredients is proprietary.

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

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Do not allow to enter sewers/ surface or ground water.
- **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.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**Product name: Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim**

(Contd. of page 3)

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**· Protective Action Criteria for Chemicals**

· PAC-1:		
7440-02-0	nickel	4.5 mg/m <sup>3</sup>
7782-40-3	Diamond	6.3 mg/m <sup>3</sup>
· PAC-2:		
7440-02-0	nickel	50 mg/m <sup>3</sup>
7782-40-3	Diamond	69 mg/m <sup>3</sup>
· PAC-3:		
7440-02-0	nickel	99 mg/m <sup>3</sup>
7782-40-3	Diamond	1,100 mg/m <sup>3</sup>

## 7 Handling and storage

**· Handling:**

**· Precautions for safe handling**

Thorough dedusting.

Open and handle receptacle with care.

**· Information about protection against explosions and fires:** Keep respiratory protective device available.

**· Conditions for safe storage, including any incompatibilities**

**· Storage:**

**· Requirements to be met by storerooms and receptacles:** Store in a cool location.

**· 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**

**· Components with limit values that require monitoring at the workplace:**

7440-02-0 nickel	
PEL	Long-term value: 1 mg/m <sup>3</sup>
REL	Long-term value: 0.015 mg/m <sup>3</sup> as Ni; See Pocket Guide App. A
TLV	Long-term value: 1.5* mg/m <sup>3</sup> elemental, *inhalable fraction

**· Additional information:** The lists that were valid during the creation were used as basis.

**· 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.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**Product name: Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim**

(Contd. of page 4)

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.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

<b>Form:</b>	Solid
<b>Color:</b>	Silver-colored
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

<b>Melting point/Melting range:</b>	1,453 °C (2,647.4 °F)
<b>Boiling point/Boiling range:</b>	>999 °C (>1,830.2 °F)

- **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:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.

- **Vapor pressure:** Not applicable.

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**Product name: Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim**

(Contd. of page 5)

· <b>Density at 20 °C (68 °F):</b>	8.91 g/cm <sup>3</sup> (74.35395 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not applicable.
· <b>Specific gravity:</b>	8.9
· <b>Evaporation rate</b>	Not applicable.

· **Solubility in / Miscibility with Water:** Insoluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**  
**Dynamic:** Not applicable.  
**Kinematic:** Not applicable.

· **Solvent content:**  
**VOC content:** 0.00 %  
 0.0 g/l / 0.00 lb/gl

**Solids content:** 100.0 %  
 · **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.
- **Conditions to avoid** Keep away from acids, reducing agents and flammable materials.
- **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:**

**ATE (Acute Toxicity Estimate)**

Inhalative	LC50/4 h	2.68 mg/l (rat)
------------	----------	-----------------

**7440-02-0 nickel**

Dermal	LD50	5,010 mg/kg (rat)
--------	------	-------------------

Inhalative	LC50/4 h	2.55 mg/l (rat)
------------	----------	-----------------

- **Primary chemical irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
 Abrasive eye irritant  
 Abrasive skin irritant

(Contd. on page 7)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**Product name: Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim**

(Contd. of page 6)

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

7440-02-0 nickel

2B

· **NTP (National Toxicology Program)**

7440-02-0 nickel

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.

· **Mobility in soil:** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

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

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

· **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

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**Product name: Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim**

(Contd. of page 7)

- |  |                 |
|--|-----------------|
| <b>· Environmental hazards:</b>  |                 |
| <b>· Marine pollutant:</b>   | No              |
| <b>· Special precautions for user</b>  | Not applicable. |
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| <b>· UN "Model Regulation":</b>  | not regulated   |

## 15 Regulatory information

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

**· Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**· Section 313 (Specific toxic chemical listings):**

7440-02-0 | nickel

**· TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**· TSCA new (21st Century Act) (Substances not listed)**

7782-40-3 | Diamond

**· Proposition 65**

**· Chemicals known to cause cancer:**

7440-02-0 | nickel

**· Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories**

**· EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**· TLV (Threshold Limit Value established by ACGIH)**

7440-02-0 | nickel

A5

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

7440-02-0 | nickel

- **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:** Environment protection department.
- **Contact:** Kim Dermit

(Contd. on page 9)



# Safety Data Sheet

## acc. to OSHA HCS

Printing date 06/12/2018

Reviewed on 06/12/2018

**Product name: Diamond Wafering Blade - Plated Segmented and Plated Continuous Rim**

(Contd. of page 8)

· **Date of preparation / last revision** 06/12/2018 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

US