1 Identification

- Product name: **Diamond Discs, Metal Bond (All Microns)**
- Part number: 50-60110 - 50-60135M
- Application of the substance / the mixture: **Abrasive**
- 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 respiratory system through prolonged or repeated exposure.

  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).
  - Hazard pictograms

  GHS07  GHS08
Product name: Diamond Discs, Metal Bond (All Microns)

- **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 respiratory system through prolonged or repeated exposure.

- **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.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 1
    - Reactivity = 0
  - **HMIS-ratings (scale 0 - 4)**
    - Health = 2
    - Fire = 1
    - Reactivity = 0

- **Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT**: Not applicable.
    - **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**
    - Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317
    - 50-100%
Product name: Diamond Discs, Metal Bond (All Microns)

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
  Headache
  Coughing
  Breathing difficulty
· 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 No further relevant information available.
· Advice for firefighters
· Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.
· Environmental precautions: No special measures required.
· 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.
· Protective Action Criteria for Chemicals

· PAC-1:
  7440-02-0 nickel 4.5 mg/m³
  7782-40-3 Diamond 6.3 mg/m³

· PAC-2:
  7440-02-0 nickel 50 mg/m³

(Contd. of page 2)
7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** Thorough dedusting.
  - **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.
    - **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:**

<table>
<thead>
<tr>
<th>Component</th>
<th>PEL</th>
<th>REL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-02-0 nickel</td>
<td>Long-term value: 1 mg/m³</td>
<td>Long-term value: 0.015 mg/m³ as Ni; See Pocket Guide App. A</td>
<td>Long-term value: 1.5* mg/m³ elemental, *inhalable fraction</td>
</tr>
</tbody>
</table>

- **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.
    - Store protective clothing separately.
  - **Breathing equipment:** Use suitable respiratory protective device when high concentrations are present.
  - **Protection of hands:**
    - **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** Nitrile rubber, NBR.
## 9 Physical and chemical properties

- **Penetration time of glove material**
The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection**: Safety glasses

### 9.1 Information on basic physical and chemical properties
#### 9.1.1 General Information
- **Appearance:** Abrasive
- **Color:** According to product specification
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **pH-value:** Not applicable.

#### 9.1.2 Change in condition
- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.

#### 9.1.3 Flash point:
Not applicable.

#### 9.1.4 Flammability (solid, gaseous):
Not determined.

#### 9.1.5 Decomposition temperature:
Not determined.

#### 9.1.6 Auto igniting:
Product is not selfigniting.

#### 9.1.7 Danger of explosion:
Product does not present an explosion hazard.

#### 9.1.8 Explosion limits:
- **Lower:** Not determined.
- **Upper:** Not determined.

#### 9.1.9 Vapor pressure:
Not applicable.

#### 9.1.10 Density:
Not determined.

#### 9.1.11 Relative density
Not determined.

#### 9.1.12 Vapor density
Not applicable.

#### 9.1.13 Evaporation rate
Not applicable.

#### 9.1.14 Solubility in / Miscibility with Water
Insoluble.

#### 9.1.15 Partition coefficient (n-octanol/water):
Not determined.

#### 9.1.16 Viscosity:
- **Dynamic:** Not applicable.
- **Kinematic:** Not applicable.

#### 9.1.17 Solvent content:
- **VOC content:** 0.00 %
  - 0.0 g/l / 0.00 lb/gl

#### 9.1.18 Solids content:
100.0 %

#### 9.1.19 Other information
No further relevant information available.

(Contd. on page 6)
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: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide

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 3.89 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
  - 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: Generally not hazardous for water
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
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: not regulated

- Packing group
  - DOT, IMDG, IATA: not regulated

- Environmental hazards:
  - Marine pollutant: No

- Special precautions for user
  - Not applicable.

- Transport in bulk according to Annex II of MARPOL 73/78 and 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

  - 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):
    - 7440-02-0 nickel
    - 7782-40-3 Diamond

  - TSCA new (21st Century Act) (Substances not listed)
    - 7782-40-3 Diamond
    - Amorphous silicate filler

(Contd. on page 8)
Product name: Diamond Discs, Metal Bond (All Microns)

- **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
- **Date of preparation / last revision:** 06/13/2018 /

- **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