1 Identification

- **Product name:** Dia-Grid Diamond Discs, Metal Plated
- **Part number:** 50-50000 - 50-51040M
- **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]
  
  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]
# Safety Data Sheet

**acc. to OSHA HCS**

**Product name: Dia-Grid Diamond Discs, Metal Plated**

## Signal word

**Danger**

### Hazard-determining components of labeling:

**nickel**

### Hazard statements

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.
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 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.
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:** 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
<th>PBT</th>
<th>vPvB</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7440-02-0</td>
<td>nickel</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td></td>
<td></td>
<td>25-50%</td>
</tr>
<tr>
<td></td>
<td>Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Non-hazardous Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cloth backing</td>
<td></td>
<td>25-50%</td>
</tr>
<tr>
<td>Polymeric Resin (cured)</td>
<td></td>
<td>10-25%</td>
</tr>
<tr>
<td>7782-40-3</td>
<td>Diamond</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
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: No special measures required.

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.
· 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. on page 4)
7 Handling and storage

- Handling:
  - Precautions for safe handling: No special precautions are necessary if used correctly.
  - 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: 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/m³
      - REL Long-term value: 0.015 mg/m³
      - TLV Long-term value: 1.5* mg/m³
      - 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.
      - 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
  - 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.
### 9 Physical and chemical properties

- **Appearance:**
  - **Form:** Abrasive
  - **Color:** According to product specification
  - **Odor:** Odorless
  - **Odor threshold:** Not determined.
- **pH-value:** Not applicable.
- **Change in condition**
  - **Melting point/Melting range:** Undetermined.
  - **Boiling point/Boiling 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.
  - **Upper:** Not determined.
- **Vapor pressure:** Not applicable.
- **Density:** Not determined.
  - **Relative 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:** Not applicable.
  - **Kinematic:** Not applicable.
- **Solvent content**
  - **VOC content:** 0.00 %
  - **Solids content:** 100.0 %
  - **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
Product name: Dia-Grid Diamond Discs, Metal Plated

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - LD/LC50 values that are relevant for classification:
      - ATEx (Acute Toxicity Estimate)
        - Inhalative LC50/4 h: 8.29 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.
      - vPvB: 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 MARPOL73/78 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
    - 7782-40-3 Diamond

  - **TSCA (Toxic Substances Control Act):**
    - 7440-02-0 nickel
    - 7782-40-3 Diamond

  - **TSCA new (21st Century Act) (Substances not listed):**
    - Cloth backing
    - Polymeric Resin (cured)
    - 7782-40-3 Diamond

(Contd. of page 6)

Other adverse effects
No further relevant information available.

(Contd. on page 8)
### Proprietary Ingredient

- **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

- **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.

### Other information

- **Department issuing SDS:** Environment protection department.
- **Contact:** Kim Dermit
- **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
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Carc. 2: Carcinogenicity – Category 2
  - STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1