

Printing date 07/02/2024

Version 5.0

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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. 16207 Carmenita Road USA-Cerritos, CA, 90703 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

| Carcinogenicity 2 | H351 Suspected of causing cancer. |
|--|--|
| Specific Target Organ Toxicity - Repeated Exposure | 1 H372 Causes damage to the respiratory system through prolonged or repeated |
| | exposure. |
| GHS07 | |
| Sensitization - Skin 1 | H317 May cause an allergic skin reaction. |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects. |

· 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).

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· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

nickel powder (particle diameter < 1 mm)

· Hazard statements

May cause an allergic skin reaction.

Suspected of causing cancer.

Causes damage to the respiratory system through prolonged or repeated exposure.

Harmful 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.

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.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

| • Hazardou | s components and components with occupational exposure limits: | |
|-------------|---|--------|
| 7440-02-0 | nickel powder (particle diameter < 1 mm) | 30-40% |
| | Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 1, H372; Sensitization - Skin 1, H317; Aquatic Chronic 3, H412 | |
| · Non-haza | rdous components: | |
| | Cloth backing | 30-40% |
| | Polymeric Resin (cured) | 10-20% |
| 7782-40-3 | Diamond | 5-10% |
| | Nylon loop | 5-10% |
| | PSA | 5-10% |
| | Proprietary Ingredient | 1-5% |
| . Additiona | Linformation : The specific chemical identity and/or exact percentage of the composition has been withheld as a trade s | aarat |

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

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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: 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: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Keep away from ignition sources
- · Environmental precautions: 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 section 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 proper ventilation/exhaustion at workplaces.

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.

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

8 Exposure controls/personal protection

• Additional information about design of technical systems: No additional data. See 7.

· Control parameters

• Components with limit values that require monitoring at the workplace:

| 7440 | -02-0 nickel powder (particle diameter < 1 mm) |
|--------|--|
| PEL | Long-term value: 1 mg/m ³ |
| REL | Long-term value: 0.015 mg/m ³ |
| | as Ni; See Pocket Guide App. A |
| TLV | Long-term value: 1.5* mg/m ³ |
| | elemental, *inhalable fraction, A5, BEI |
| · Ingr | edients with biological limit values: |
| 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) |
| | |
| | 30 μg/L |
| | Medium: urine |
| | Time: post-shift at end of workweek |
| | Parameter: Nickel (background) |

· 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

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.

• Eye protection:



Tightly sealed goggles

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| 9 Physical and chemical properties | |
|--|--|
| Information on basic physical and chemical properties General Information Appearance: | |
| Form: Color: Odor: Odor threshold: | Abrasive According to product specification Odorless Not determined. |
| · pH-value: | Not applicable. |
| Change in condition Melting point/Melting range: Boiling point/Boiling range: | Undetermined. Undetermined. |
| · Flash point: | Not applicable. |
| · Flammability (solid, gaseous): | Not determined. |
| · Decomposition temperature: | Not determined. |
| · Ignition temperature: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| [·] Explosion limits: Lower: Upper: | Not determined. Not determined. |
| · Vapor pressure: | Not applicable. |
| Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: | Not determined. Not determined. Not applicable. Not applicable. Insoluble. |
| · Partition coefficient (n-octanol/wate | r): Not determined. |
| · Viscosity: Dynamic: Kinematic: | Not applicable. 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.

- · 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 open flames. No smoking.

Keep away from heat.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide and carbon dioxide

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· Additional information: Hazardous decomposition products may form during combustion.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:

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 skin contact.
- · Additional toxicological information:
- Abrasive eve irritant Abrasive skin irritant
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer) 7440-02-0 nickel powder (particle diameter < 1 mm) 2B · NTP (National Toxicology Program) 7440-02-0 nickel powder (particle diameter < 1 mm) R · OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed.

2 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

3 Disposal considerations

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

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| 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 | |
| · Special precautions for user | Not applicable. | |
| • Transport in bulk according to Annex II of MA the IBC Code | ARPOL73/78 and Not applicable. | |
| · UN "Model Regulation": | not regulated | |
| 15 Regulatory information | | |

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

| · Sara |
|--------|
|--------|

| Sala | | |
|--|--------|--|
| · Section 355 (extremely hazardous substances): | | |
| None of the ingredients is listed. | | |
| · Section 313 (Specific toxic chemical listings): | | |
| 7440-02-0 nickel powder (particle diameter < 1 mm) | | |
| • TSCA (Toxic Substances Control Act): All other ingredients are exempt from listing. | | |
| 7440-02-0 nickel powder (particle diameter < 1 mm) | ACTIVE | |
| Polymeric Resin (cured) | ACTIVE | |
| 7782-40-3 Diamond | ACTIVE | |
| Nylon loop | ACTIVE | |
| Proprietary Ingredient | ACTIVE | |
| · Hazardous Air Pollutants | | |
| None of the ingredients is listed. | | |
| · Proposition 65 | | |
| · Chemicals known to cause cancer: | | |
| 7440-02-0 nickel powder (particle diameter < 1 mm) | | |
| 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. | | |

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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| 16 Other information |
|--|
| To the best of our knowledge, the information contained herein is accurate. However, it does not describe a guarantee of product properties and does not establish a contractual legal relationship. |
| · Department issuing SDS: Technical Services |
| Contact: Pablo Mendoza |
| · Last revision / supersedes version: 06/01/2024 / 4.0 |
| · Supersedes date: 06/01/2022 |
| · Abbreviations and acronyms: |
| ADD: Accord relatif au transport international 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 |
| 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 - Skin 1: Skin sensitisation – Category 1 Carcinogenicity 2: Carcinogenicity – Category 2 |
| Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity, Peneted Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1 |

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 • * Data compared to the previous version altered.