1 Identification

- Product name: Diamond Compound
- Part number: 90-20995-S - 90-21105
- Application of the substance / the mixture
  Abrasive
  Polishing solution
- 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
  GHS07
  Eye Irrit. 2A  H319  Causes serious eye irritation.
  Skin Sens. 1   H317  May cause an allergic skin reaction.

- Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- Hazard pictograms
  GHS07

- Signal word Warning
- Hazard-determining components of labeling:
  mequinol
- Hazard statements
  Causes serious eye irritation.
  May cause an allergic skin reaction.
- Precautionary statements
  Avoid breathing dust/fume/gas/mist/vapors/spray
Product name: Diamond Compound

Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
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.

<table>
<thead>
<tr>
<th>Hazardous Components:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>69012-64-2 Silica-Amorphous Silica fume</td>
<td>↑ Acute Tox. 4, H332</td>
<td>1-10%</td>
</tr>
<tr>
<td>111-76-2 ethylene glycol monobutyl ether</td>
<td>↑ Acute Tox. 3, H331; ↑ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227</td>
<td>≤1%</td>
</tr>
<tr>
<td>150-76-5 mequinol</td>
<td>↑ Acute Tox. 4, H302; Eye Irrit. 2A, H319; Skin Sens. 1, H317</td>
<td>≥0.1-&lt;1%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Non-hazardous Components:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9038-95-3 polyalkylene glycol monobutyl ether</td>
<td></td>
<td>50-100%</td>
</tr>
<tr>
<td>7782-40-3 Diamond</td>
<td></td>
<td>10-25%</td>
</tr>
<tr>
<td>9005-65-6 Lubricant</td>
<td></td>
<td>1-10%</td>
</tr>
</tbody>
</table>

4 First-aid measures

Description of first aid measures

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. If symptoms persist, consult a doctor.

After swallowing: If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

Coughing
Product name: Diamond Compound

Nausea
Headache
Dizziness

· 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:
  Do not allow to enter sewers/ surface or ground water.
  Dilute with plenty of water.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  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

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-40-3</td>
<td>Diamond</td>
<td>6.3 mg/m³</td>
</tr>
<tr>
<td>69012-64-2</td>
<td>Silica-Amorphous Silica fume</td>
<td>45 mg/m³</td>
</tr>
<tr>
<td>111-76-2</td>
<td>ethylene glycol monobutyl ether</td>
<td>60 ppm</td>
</tr>
<tr>
<td>150-76-5</td>
<td>mequinol</td>
<td>15 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-40-3</td>
<td>Diamond</td>
<td>69 mg/m³</td>
</tr>
<tr>
<td>69012-64-2</td>
<td>Silica-Amorphous Silica fume</td>
<td>500 mg/m³</td>
</tr>
<tr>
<td>111-76-2</td>
<td>ethylene glycol monobutyl ether</td>
<td>120 ppm</td>
</tr>
<tr>
<td>150-76-5</td>
<td>mequinol</td>
<td>49 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-40-3</td>
<td>Diamond</td>
<td>1,100 mg/m³</td>
</tr>
<tr>
<td>69012-64-2</td>
<td>Silica-Amorphous Silica fume</td>
<td>3,000 mg/m³</td>
</tr>
<tr>
<td>111-76-2</td>
<td>ethylene glycol monobutyl ether</td>
<td>700 ppm</td>
</tr>
<tr>
<td>150-76-5</td>
<td>mequinol</td>
<td>320 mg/m³</td>
</tr>
</tbody>
</table>

7 Handling and storage

· Handling:
· Precautions for safe handling Prevent formation of aerosols.
· 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: Keep away from alkaline solutions.
· Information about storage in one common storage facility: Not required.

(Contd. on page 4)
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:
    - 69012-64-2 Silica-Amorphous Silica fume
      - PEL: Long-term value: 0.8 mg/m³
      - TLV: TLV withdrawn
    - 111-76-2 ethylene glycol monobutyl ether
      - PEL: Long-term value: 240 mg/m³, 50 ppm
        - Skin
      - REL: Long-term value: 24 mg/m³, 5 ppm
        - Skin
      - TLV: Long-term value: 97 mg/m³, 20 ppm
        - BEI
    - 150-76-5 mequinol
      - REL: Long-term value: 5 mg/m³
      - TLV: Long-term value: 5 mg/m³

- Ingredients with biological limit values:
  - 111-76-2 ethylene glycol monobutyl ether
    - BEI: 200 mg/g creatinine
      - Medium: urine
      - Time: end of shift
    - Parameter: Butoxyacetic acid with hydrolysis

- 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.
      - Avoid contact with the eyes.
      - Avoid contact with the eyes and skin.
  - 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 Butyl rubber, BR
- 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.
Product name: Diamond Compound

- **Eye protection:**
  Tightly sealed goggles

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Pasty
  - Color: According to product specification
  - Odor: Mild
  - Odor threshold: Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range: -65 °C (-85 °F)
  - Boiling point/Boiling range: 200 °C (392 °F)
- **Flash point:** 102 °C (215.6 °F)
- **Flammability (solid, gaseous):** Not applicable.
- **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 at 20 °C (68 °F):** >0 hPa
- **Density:** Not determined.
- **Relative density:** Not determined.
- **Vapor density:** 9.3
- **Specific gravity:** 0.971 (Water = 1)
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with**
  - Water: Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 0.1 %
  - VOC content: 0.14 %
  - 1.4 g/l / 0.01 lb/gal
- **Solids content:** 99.9 %
- **Other information**
  No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
Product name: Diamond Compound

- 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 oxidising agents and acidic substances.
  Keep away from alkaline solutions.
  Keep away from heat.
  Keep away from open flames. - No smoking.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide
- Additional information: Hazardous decomposition products may form during combustion.

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

<table>
<thead>
<tr>
<th>LD/LC50 values that are relevant for classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE (Acute Toxicity Estimate)</td>
</tr>
<tr>
<td>Inhalative LC50/4 h 20.8 mg/l</td>
</tr>
</tbody>
</table>

9038-95-3 polyalkylene glycol monobutyl ether

| Dermal | LD50 | 16,960 mg/kg (rabbit) |

69012-64-2 Silica-Amorphous Silica fume

| Oral    | LD50 | >5,110 mg/kg (rat) |
| Dermal  | LD50 | >5,000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 1.5 mg/l (ATE) |

111-76-2 ethylene glycol monobutyl ether

| Oral    | LD50 | 1,480 mg/kg (rat) |
| Dermal  | LD50 | 400 mg/kg (rab) |
| Inhalative | LC50/4 h | 2.2 mg/l (rat) |

150-76-5 mequinol

| Oral    | LD50 | 1,600 mg/kg (rat) |
| Dermal  | LD50 | 5,010 mg/kg (rat) |

- Primary chemical irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.
  - Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

- Carcinogenic categories

<table>
<thead>
<tr>
<th>IARC (International Agency for Research on Cancer)</th>
</tr>
</thead>
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<tr>
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</tr>
</tbody>
</table>

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.
12 Ecological information

- Toxicity
  - Aquatic toxicity:
    - 111–76-2 ethylene glycol monobutyl ether
    - EC50 (48 h) (static): 1,550 mg/l (daphnia)

- 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 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.
- 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.
  - Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number
  - DOT, IMDG, IATA: not regulated
- UN proper shipping name
  - DOT, 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 MARPOL73/78 and the IBC Code
  - UN "Model Regulation": Not applicable.

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.

(Contd. on page 8)
Product name: Diamond Compound

- **Section 313 (Specific toxic chemical listings):**
  - 111-76-2 ethylene glycol monobutyl ether

- **TSCA (Toxic Substances Control Act):**
  All components have the value ACTIVE.

- **Hazardous Air Pollutants**
  None of the ingredients is listed.

- **Proposition 65**
  None of the ingredients is listed.

- **Chemicals known to cause cancer:**
  None of the ingredients is listed.

- **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)**
    - 111-76-2 ethylene glycol monobutyl ether
      - NL
  - **TLV (Threshold Limit Value established by ACGIH)**
    - 111-76-2 ethylene glycol monobutyl ether
      - A3
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    None of the ingredients is listed.

- **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
- **Last revision:** 04/30/2020 / 4.0

**Abbreviations and acronyms:**
- 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
- BEF: Biological Exposure Limit
- Flam. Liq. 4: Flammable liquids – Category 4
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Irrit. 2: Skin corrosion/irritation – Category 2

(Contd. on page 9)
Product name: Diamond Compound

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1