## 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](image)  
  Skin Sens. 1 H317 May cause an allergic skin reaction.  
  Eye Irrit. 2B H320 Causes eye irritation.  

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

  ![GHS07](image)  

- **Signal word** Warning  
- **Hazard-determining components of labeling**:  
  mequinol
### Hazard statements
Causes eye irritation. May cause an allergic skin reaction.

### Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves.
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 = 2
  - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - Health = 2
  - Fire = 2
  - 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>CAS Number</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>69012-64-2</td>
<td>Silica-Amorphous Silica fume</td>
<td>2.5-10%</td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="Acute Tox. 3, H331" /></td>
<td></td>
</tr>
<tr>
<td>150-76-5</td>
<td>mequinol</td>
<td>≤2.5%</td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="Acute Tox. 4, H302; Eye Irrit. 2A, H319; Skin Sens. 1, H317" /></td>
<td></td>
</tr>
<tr>
<td>111-76-2</td>
<td>ethylene glycol monobutyl ether</td>
<td>≤2.5%</td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="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></td>
</tr>
</tbody>
</table>

#### Non-hazardous Components:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>9038-95-3</td>
<td>polyalkylene glycol monobutyl ether</td>
<td>30-100%</td>
</tr>
<tr>
<td>7782-40-3</td>
<td>Diamond</td>
<td>10-25%</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
Product name: Diamond Compound

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
    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).
- 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:
    7782-40-3 Diamond 6.3 mg/m³
    69012-64-2 Silica-Amorphous Silica fume 45 mg/m³
    150-76-5 mequinol 15 mg/m³
    111-76-2 ethylene glycol monobutyl ether 60 ppm

  - PAC-2:
    7782-40-3 Diamond 69 mg/m³
### 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:** Keep away from alkaline solutions.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** Keep receptacle tightly sealed.
    - **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:**
    - **69012-64-2 Silica-Amorphous Silica fume**
      - **PEL** Long-term value: 0.8 mg/m³
      - **TLV** TLV withdrawn
    - **150-76-5 mequinol**
      - **REL** Long-term value: 5 mg/m³
      - **TLV** Long-term value: 5 mg/m³
    - **111-76-2 ethylene glycol monobutyl ether**
      - **PEL** Long-term value: 240 mg/m³, 50 ppm
      - **REL** Long-term value: 24 mg/m³, 5 ppm
      - **TLV** Long-term value: 97 mg/m³, 20 ppm
      - **BEI**

- **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: Not required.

Protection of hands:

Protective gloves

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.

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.
Product name: Diamond Compound

- Vapor pressure at 20 °C (68 °F): >0 hPa (>0 mm Hg)
- 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/gl

- Solids content: 99.9 %
- 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 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:
- LD/LC50 values that are relevant for classification:

  **ATE (Acute Toxicity Estimate)**
  - Inhalative LC50/4 h 41 mg/l

  **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)
**Product name: Diamond Compound**

<table>
<thead>
<tr>
<th></th>
<th>Dermal LD50</th>
<th>Dermal LD50</th>
<th>Inhalative LC50/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>150-76-5 mequinol</td>
<td>&gt;5,000 mg/kg (rabbit)</td>
<td>3 mg/l (ATE)</td>
<td></td>
</tr>
<tr>
<td>111-76-2 ethylene glycol monobutyl ether</td>
<td>1,600 mg/kg (rat)</td>
<td>2,010 mg/kg (rat)</td>
<td>2.2 mg/l (rat)</td>
</tr>
</tbody>
</table>

- **Primary chemical irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** Irritating effect.
  - **Sensitization:** Sensitization possible through skin contact.
  - **Additional toxicological information:**
    - Specific Target Organ Toxicity - Single Exposure 3 - Target Organ: central nervous system depression

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - 69012-64-2 Silica-Amorphous Silica fume 3
    - 111-76-2 ethylene glycol monobutyl ether 3
  - **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:** 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 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.
Product name: Diamond Compound

- 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, 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 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):**
      - 111-76-2 ethylene glycol monobutyl ether
  - **TSCA (Toxic Substances Control Act):**
    - 9038-95-3 polyalkylene glycol monobutyl ether
    - 7782-40-3 Diamond
    - 69012-64-2 Silica-Amorphous Silica fume
    - 150-76-5 mequinol
    - 111-76-2 ethylene glycol monobutyl ether
  - **TSCA new (21st Century Act) (Substances not listed)**
    - 7782-40-3 Diamond
    - Lubricant
  - **Proposition 65**
    - **Chemicals known to cause cancer:** None of the ingredients is listed.
Product name: Diamond Compound

- **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
- **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
  BEI: Biological Exposure Limit
  Flam. Liq. 4: Flammable liquids – Category 4
  Acute Tox. 4: Acute toxicity – Category 4
  Acute Tox. 3: Acute toxicity – Category 3
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
  Skin Sens. 1: Skin sensitisation – Category 1