1 Identification

- Product name: Diamond Suspension, Glycol-Based, All Microns
- Part number:
  90-29990-4 - 90-30040-G
  90-31015 - 90-31045
- Application of the substance / the mixture: 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
  The product is not classified, according to the Globally Harmonized System (GHS).
- Label elements
  - GHS label elements: Void
  - Hazard pictograms: Void
  - Signal word: Void
  - Hazard statements: Void
- Classification system:
  - NFPA ratings (scale 0 - 4)
    Health = 0
    Fire = 0
    Reactivity = 0
  - HMIS-ratings (scale 0 - 4)
    HEALTH = 0
    FIRE = 0
    REACTIVITY = 0

(Contd. on page 2)
**Product name:** Diamond Suspension, Glycol-Based, All Microns

- **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>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-55-6</td>
<td>propylene glycol</td>
</tr>
</tbody>
</table>

#### Non-hazardous Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-40-3</td>
<td>Diamond</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water, distilled, conductivity or of similar purity</td>
</tr>
</tbody>
</table>

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **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
  - 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 product to reach sewage system or any water course.
  - 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:**
  - 57-55-6 propylene glycol 30 mg/m³
  - 7782-40-3 Diamond 6.3 mg/m³

- **PAC-2:**
  - 57-55-6 propylene glycol 1,300 mg/m³
  - 7782-40-3 Diamond 69 mg/m³

- **PAC-3:**
  - 57-55-6 propylene glycol 7,900 mg/m³
  - 7782-40-3 Diamond 1,100 mg/m³

7 Handling and storage

- **Handling:**
  - Precautions for safe handling: No special measures required.
  - 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: None.

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:
    - 57-55-6 propylene glycol
    - WEEL, Long-term value: 10 mg/m³

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**
  - **Personal protective equipment:**
    - General protective and hygienic measures:
      The usual precautionary measures for handling chemicals should be followed.
    - Breathing equipment: Not required.
  - **Protection of hands:** Not required.
  - Material of gloves
    - Butyl rubber, BR
    - 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.

(Contd. on page 4)
### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td>Form: Suspension</td>
<td></td>
</tr>
<tr>
<td>Color: According to product specification</td>
<td></td>
</tr>
<tr>
<td>Odor: uncharacteristic</td>
<td></td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>pH-value at 20 °C (68 °F):</strong></td>
<td>8</td>
</tr>
<tr>
<td><strong>Change in condition</strong></td>
<td></td>
</tr>
<tr>
<td>Melting point/Melting range: Undetermined.</td>
<td></td>
</tr>
<tr>
<td>Boiling point/Boiling range: 100 °C (212 °F)</td>
<td></td>
</tr>
<tr>
<td><strong>Flash point:</strong> Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Flammability (solid, gaseous):</strong> Not applicable.</td>
<td></td>
</tr>
<tr>
<td><strong>Decomposition temperature:</strong> Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Auto igniting:</strong> Product is not selfigniting.</td>
<td></td>
</tr>
<tr>
<td><strong>Danger of explosion:</strong> Product does not present an explosion hazard.</td>
<td></td>
</tr>
<tr>
<td><strong>Explosion limits:</strong></td>
<td></td>
</tr>
<tr>
<td>Lower: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Upper: Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Vapor pressure at 20 °C (68 °F):</strong> 23 hPa (17.3 mm Hg)</td>
<td></td>
</tr>
<tr>
<td><strong>Density:</strong> Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Relative density</strong> Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Vapor density</strong> Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Specific gravity:</strong> I (water = 1)</td>
<td></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong> Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Solubility in / Miscibility with</strong> Not miscible or difficult to mix.</td>
<td></td>
</tr>
<tr>
<td>Water: Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Partition coefficient (n-octanol/water):</strong> Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity:</strong></td>
<td></td>
</tr>
<tr>
<td>Dynamic: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Kinematic: Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>Solvent content:</strong></td>
<td></td>
</tr>
<tr>
<td>Organic solvents: 24.6 %</td>
<td></td>
</tr>
<tr>
<td>Water: 73.8 %</td>
<td></td>
</tr>
<tr>
<td>VOC content: 24.6 %</td>
<td></td>
</tr>
<tr>
<td>150.0 g/l / 1.25 lb/gl</td>
<td></td>
</tr>
<tr>
<td><strong>Solids content:</strong></td>
<td>1.6 %</td>
</tr>
<tr>
<td><strong>Other information</strong> No further relevant information available.</td>
<td></td>
</tr>
</tbody>
</table>
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.
- **Incompatible materials**: No further relevant information available.
- **Hazardous decomposition products**:
  - Aldehyde
  - Carbon monoxide and carbon dioxide
- **Additional information**: Hazardous decomposition products may form during combustion

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**:
  - **ATE (Acute Toxicity Estimate)**
    - Oral LD50 8,133 mg/kg (rat)
  - **57-55-6 propylene glycol**
    - Oral LD50 2,000 mg/kg (rat)
    - Dermal LD50 20,800 mg/kg (rabbit)
- **Primary chemical irritant effect**:
  - **on the skin**: No irritant effect.
  - **on the eye**: No irritating effect.
- **Sensitization**: No sensitizing effects known.
- **Additional toxicological information**:
  - Abrasive eye irritant
  - Abrasive skin irritant
  - When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - None of the ingredients is listed.
  - **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.
## 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

<table>
<thead>
<tr>
<th><strong>UN-Number</strong></th>
<th><strong>DOT, ADN, IMDG, IATA</strong></th>
<th>not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN proper shipping name</strong></td>
<td><strong>DOT, ADN, IMDG, IATA</strong></td>
<td>not regulated</td>
</tr>
<tr>
<td><strong>Transport hazard class(es)</strong></td>
<td><strong>DOT, ADN, IMDG, IATA</strong></td>
<td>not regulated</td>
</tr>
<tr>
<td><strong>Class</strong></td>
<td><strong>DOT, ADN, IMDG, IATA</strong></td>
<td>not regulated</td>
</tr>
</tbody>
</table>

- **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):

None of the ingredients is listed.

### TSCA (Toxic Substances Control Act):

All ingredients are listed.

### TSCA new (21st Century Act) (Substances not listed)

7782-40-3 Diamond

### Proposition 65

- **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)**
  
  None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**
  
  None of the ingredients is listed.

- **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:** 06/04/2018 / -
- **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
Product name: Diamond Suspension, Glycol-Based, All Microns

PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Tox. 4: Acute toxicity – Category 4