1 Identification

- **Product name:** DiaLube Diamond Suspension, All Microns
- **Part number:** 90-3DL1H - 90-3DL15
- **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@alliedhiightech.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 = 1
  - Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**
  - HEA: Health = 1
  - FIE: Fire = 1
  - RCT: 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.

(Contd. on page 2)
Product name: DiaLube Diamond Suspension, All Microns

(Contd. of page 1)

- Hazardous Components:
  - 57-55-6 propylene glycol
    - Acute Tox. 4, H302 25-50%

- Non-hazardous Components:
  - 7732-18-5 water, distilled, conductivity or of similar purity 25-50%
  - 7782-40-3 Diamond ≤1%

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
    - Dizziness
    - Disorientation
    - Unconsciousness
    - Coughing
    - Nausea

- Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 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

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>57-55-6 propylene glycol</td>
<td>30 mg/m³</td>
<td></td>
</tr>
<tr>
<td>7782-40-3 Diamond</td>
<td>6.3 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>57-55-6 propylene glycol</td>
<td>1,300 mg/m³</td>
<td></td>
</tr>
<tr>
<td>7782-40-3 Diamond</td>
<td>69 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>57-55-6 propylene glycol</td>
<td>7,900 mg/m³</td>
<td></td>
</tr>
<tr>
<td>7782-40-3 Diamond</td>
<td>1,100 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 3)
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:
  · Protection of hands: Not required.
  · Material of gloves
    Nitrile rubber, NBR
    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: Goggles recommended during refilling.

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
  · Appearance:
    · Form: Suspension
    · Color: According to product specification
    · Odor: Odorless
    · Odor threshold: Not determined.
  · pH-value at 20 °C (68 °F): 8
  · Change in condition
    · Melting point/Melting range: Undetermined.
    · Boiling point/Boiling range: 104 °C (219.2 °F)
  · Flash point: >93 °C (>199.4 °F)
  · Flammability (solid, gaseous): Not applicable.
Safety Data Sheet
acc. to OSHA HCS

Product name: DiaLube Diamond Suspension, All Microns

· 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 determined.
· Density: Not determined.
· Relative density: Not determined.
· Vapor density: Not determined.
· Specific gravity: 1 (Water = 1)
· Evaporation rate: Not determined.
· Solubility in / Miscibility with Water: Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:
  · Dynamic: Not determined.
  · Kinematic: Not determined.
· Solvent content:
  · Organic solvents: 49.0 %
  · Water: 49.0 %
  · VOC content: 49.02 %
  · 490.2 g/l / 4.09 lb/gal
· Solids content: 2.0 %
· 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 oxidising agents and acidic substances.
  · Keep away from alkaline solutions.
· 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)
      · Oral LD50 4,080 mg/kg (rat)
    · 57-55-6 propylene glycol
      · Oral LD50 2,000 mg/kg (rat)
      · Dermal LD50 20,800 mg/kg (rabbit)
Product name: DiaLube Diamond Suspension, All Microns

· 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.
· 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.

### 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 |
| Class | not regulated |
| Packing group | DOT, IMDG, IATA | not regulated |
Product name: DiaLube Diamond Suspension, All Microns

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 components have the value ACTIVE.
  - Hazardous Air Pollutants None of the ingredients is listed.
  - 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
- Last revision: 04/30/2020 / 3.0
- 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
Product name: DiaLube Diamond Suspension, All Microns

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
Acute Tox. 4: Acute toxicity – Category 4