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@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 = 1
    Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  HEALTH HEALTH = 0
  FIRE FIRE = 1
  REACTIVITY REACTIVITY = 0

- Other hazards
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.

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

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

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

Non-hazardous Components:
- 7782-40-3 Diamond ≤2.5%
- 7732-18-5 water, distilled, conductivity or of similar purity 25-50%

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).
Product name: DiaLube Diamond Suspension, All Microns

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

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.

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
  Nitrile rubber, NBR
  Butyl rubber, BR
**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.

  - **Decomposition temperature:** Not determined.

  - **Auto igniting:** Product is not selfigniting.

  - **Danger of explosion:** Product does not present an explosion hazard.

  - **Explosion limits:** Not determined.
    
    - **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/gl

  - **Solids content:** 2.0 %
Product name: DiaLube Diamond Suspension, All Microns

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)
  - 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.
Product name: DiaLube Diamond Suspension, All Microns

- **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
- **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.

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### 47.0 

**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)**

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**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.

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### 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
### Product name: DiaLube Diamond Suspension, All Microns

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

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