1 Identification

- **Product name:** GreenLube Polishing Lubricant
- **Part number:** 90-208995 - 90-209010
- **Application of the substance / the mixture** Lubricant
- **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**

  - GHS07

    Skin Irrit. 2  H315  Causes skin irritation.
    Eye Irrit. 2A  H319  Causes serious eye irritation.

- **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 statements**
  Causes skin irritation.
  Causes serious eye irritation.

- **Precautionary statements**
  Wash thoroughly after handling.
  Wear protective gloves / eye protection / face protection.
  If on skin: Wash with plenty of water.
  Specific treatment (see on this label).
  If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  If skin irritation occurs: Get medical advice/attention.
Product name: GreenLube Polishing Lubricant

Take off contaminated clothing and wash it before reuse.
If eye irritation persists: Get medical advice/attention.

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>107-41-5</th>
<th>hexylene glycol</th>
<th>Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227</th>
<th>25-50%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7732-18-5</td>
<td>water, distilled, conductivity or of similar purity</td>
<td></td>
<td>25-50%</td>
</tr>
<tr>
<td></td>
<td>7632-00-0</td>
<td>sodium nitrite</td>
<td></td>
<td>&lt;0.25%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ox. Sol. 3, H272; Acute Tox. 3, H301; Aquatic Acute 1, H400</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4 First-aid measures
- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: 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
    - Headache
    - Coughing
    - Gastric or intestinal disorders
    - 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.
Product name: GreenLube Polishing Lubricant

- **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**

<table>
<thead>
<tr>
<th>PAC-1</th>
<th>2.3 ppm</th>
<th>6.4 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-41-5</td>
<td>hexylene glycol</td>
<td></td>
</tr>
<tr>
<td>7632-00-0</td>
<td>sodium nitrite</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2</th>
<th>25 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-41-5</td>
<td>hexylene glycol</td>
</tr>
<tr>
<td>7632-00-0</td>
<td>sodium nitrite</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3</th>
<th>150 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>107-41-5</td>
<td>hexylene glycol</td>
</tr>
<tr>
<td>7632-00-0</td>
<td>sodium nitrite</td>
</tr>
</tbody>
</table>

- **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:**
      Store in a cool location.
      No special requirements.
    - **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:**

    | 107-41-5 hexylene glycol |
    | REL Ceiling limit value: 125 mg/m³, 25 ppm |
    | TLV Short-term value: 50* 10** ppm |
    | Long-term value: 25* ppm |
    | *vapor **inh. fraction, aerosol only |

  - **Additional information:** The lists that were valid during the creation were used as basis.
Product name: GreenLube Polishing Lubricant

· Breathing equipment:
  Not required.
  Use suitable respiratory protective device in case of insufficient ventilation.

· 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
  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.

· Eye protection:
  Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties
  · General Information
  · Appearance:
    Form: Liquid
    Color: Light green
    Odor: Mild
    Odor threshold: Not determined.
  · pH-value at 20 °C (68 °F): 7
  · Change in condition
    Melting point/Melting range: Undetermined.
    Boiling point/Boiling range: 99 °C (210.2 °F)
  · Flash point: 99 °C (210.2 °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: Not determined.
  · Density: Not determined.
  · Relative density: Not determined.
  · Vapor density: 4.1
  · Specific gravity: 0.96 (Water = 1)
  · Evaporation rate: Not determined.
  · Solubility in / Miscibility with
    Water: Fully miscible.
  · Partition coefficient (n-octanol/water): Not determined.
Product name: GreenLube Polishing Lubricant

<table>
<thead>
<tr>
<th>· Viscosity:</th>
<th>Not determined.</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Solvent content:</td>
<td>50.0 %</td>
</tr>
<tr>
<td>· Water:</td>
<td>0.00 %</td>
</tr>
<tr>
<td>· VOC content:</td>
<td>0.0 g/l / 0.00 lb/gal</td>
</tr>
<tr>
<td>· Other information</td>
<td>No further relevant information available.</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.
· 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

· LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>· ATE (Acute Toxicity Estimate)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Oral</td>
<td>7,406 mg/kg (rat)</td>
</tr>
<tr>
<td>· Dermal</td>
<td>8,560 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

· Primary chemical irritant effect:
· on the skin:  Irritant to skin and mucous membranes.
· on the eye:  Irritating effect.
· Sensitization:  No sensitizing effects known.
· Additional toxicological information:
· 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.
Product name: GreenLube Polishing Lubricant

- 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, 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):
    - Not 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.
Product name: GreenLube Polishing Lubricant

(Contd. of page 6)

- 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
  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: 05/01/2020 / 1.0

- 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
  Flam. Liq. 4: Flammable liquids – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A