1 Identification

· Product name: RedLube Polishing Lubricant
  · Part number: 90-206995 - 90-207010
· 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@alliedhihtech.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

  ▲ GHS02 Flame

  Flam. Liq. 3  H226  Flammable liquid and vapor.

  ▶ GHS08 Health hazard

  STOT SE 1  H370  Causes damage to the central nervous system.

  ▼ GHS07

  Acute Tox. 4  H302  Harmful if swallowed.

  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

  ▲ GHS02  ▶ GHS07  ▶ GHS08

(Contd. on page 2)
Product name: RedLube Polishing Lubricant

- **Signal word** Danger
- **Hazard-determining components of labeling:**
  - propylene glycol
  - methyl alcohol
- **Hazard statements**
  - Flammable liquid and vapor.
  - Harmful if swallowed.
  - Causes eye irritation.
  - Causes damage to the central nervous system.
- **Precautionary statements**
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Keep container tightly closed.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting/equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not breathe dust/fume/gas/mist/vapors/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If swallowed: Call a poison center/doctor if you feel unwell.
  - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - IF exposed: Call a POISON CENTER or doctor/physician.
  - Specific treatment (see on this label).
  - Rinse mouth.
  - If eye irritation persists: Get medical advice/attention.
  - In case of fire: Use for extinction: CO2, powder or water spray.
  - Store in a well-ventilated place. Keep cool.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**
  - Health = 1
  - Fire = 2
  - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - HEALTH: 1 Health = *1
  - FIRE: 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.

<table>
<thead>
<tr>
<th>Hazardous Components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-55-6 propylene glycol</td>
</tr>
<tr>
<td>Acute Tox. 4, H302</td>
</tr>
</tbody>
</table>
Product name: RedLube Polishing Lubricant

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-56-1</td>
<td>Methyl alcohol</td>
<td>10-25%</td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370</td>
<td></td>
</tr>
</tbody>
</table>

### Non-hazardous Components:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7632-00-0</td>
<td>Sodium nitrite</td>
<td>&lt;0.25%</td>
</tr>
<tr>
<td></td>
<td>Ox. Sol. 3, H272; Acute Tox. 3, H301; Aquatic Acute 1, H400</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. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Immediately rinse with water.

**After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:** Immediately call a doctor.

**Information for doctor:**

- Most important symptoms and effects, both acute and delayed
  - Headache
  - Coughing
  - Gastric or intestinal disorders
  - Nausea
  - Dizziness
  - Disorientation
  - Unconsciousness

- **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.

- For safety reasons unsuitable extinguishing agents: Water with full jet

- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

**Advice for firefighters**

- Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

- Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.

**Environmental precautions:**

- Do not allow product to reach sewage system or any water course.
- Do not allow to enter sewers/ surface or ground water.
- Prevent seepage into sewage system, workpits and cellars.
- 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).
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.

**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>Code</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>57-55-6</td>
<td>Propylene glycol</td>
<td>30 mg/m³</td>
</tr>
<tr>
<td>67-56-1</td>
<td>Methyl alcohol</td>
<td>530 ppm</td>
</tr>
</tbody>
</table>

(Contd. on page 4)
7 Handling and storage

- Handling:
  - Precautions for safe handling: Prevent formation of aerosols.
  - Information about protection against explosions and fires:
    Keep ignition sources away - Do not smoke.
    Protect against electrostatic charges.
    Keep respiratory protective device available.

- 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.
    Store receptacle in a well ventilated area.
  - 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 |
    | 67-56-1 methyl alcohol |
    | PEL  | Long-term value: 260 mg/m³, 200 ppm |
    | REL  | Short-term value: 325 mg/m³, 250 ppm |
    |       | Long-term value: 260 mg/m³, 200 ppm |
    |       | Skin |
    | TLV  | Short-term value: 328 mg/m³, 250 ppm |
    |       | Long-term value: 262 mg/m³, 200 ppm |
    |       | Skin; BEI |

- Ingredients with biological limit values:
  - 67-56-1 methyl alcohol
    | BEI  | 15 mg/L |
    |      | Medium: urine |
    |      | Time: end of shift |
    |      | Parameter: Methanol (background, nonspecific) |

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

· 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: Use suitable respiratory protective device when high concentrations are present.
· 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: 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: Liquid
    Color: Red
    Odor: Mild
    Odor threshold: Not determined.
  · pH-value: Not determined.
· Change in condition
  · Melting point/Melting range: Undetermined.
  · Boiling point/Boiling range: 64 °C (147.2 °F)
· Flash point: 43 °C (109.4 °F)
· Flammability (solid, gaseous): Not applicable.
· Ignition temperature: 371 °C (699.8 °F)
· Decomposition temperature: Not determined.
· Auto igniting: Product is not selfigniting.
· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:
  Lower: 2.6 Vol %
  Upper: 12.6 Vol %
· Vapor pressure at 20 °C (68 °F): 0.1 hPa
· Density at 20 °C (68 °F): 1.00369 g/cm³ (8.37579 lbs/gal)
· Relative density: Not determined.
Product name: RedLube Polishing Lubricant

- Vapor density: 2.5
- Specific gravity: 1.018 (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: 99.9 %
  - VOC content: 99.91 %
  - 1,002.8 g/l / 8.37 lb/gal
- Solids content: 0.1 %
- 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 heat.
  - Keep away from open flames. - No smoking.
  - Keep away from oxidising agents and acidic substances.
- 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:

<table>
<thead>
<tr>
<th>LD/LC50 values that are relevant for classification:</th>
<th>ATE (Acute Toxicity Estimate)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>LD50</td>
</tr>
<tr>
<td>Dermal</td>
<td>LD50</td>
</tr>
<tr>
<td>Inhalative</td>
<td>LC50/4 h</td>
</tr>
</tbody>
</table>

57-55-6 propylene glycol

| Oral | LD50 | 2,000 mg/kg (rat) |
| Dermal | LD50 | 20,800 mg/kg (rabbit) |

67-56-1 methyl alcohol

| Oral | LD50 | 100 mg/kg (ATE) |
| Dermal | LD50 | 300 mg/kg (ATE) |
| Inhalative | LC50/4 h | 3 mg/l (ATE) |

- Primary chemical irritant effect:
  - on the skin: No irritant effect.
  - on the eye: Irritating effect.

(Contd. of page 7)
Product name: RedLube Polishing Lubricant

- 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.
- 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, IMDG, IATA: UN1987
- UN proper shipping name
  - DOT: Alcohols, n.o.s. (Methanol)
  - IMDG, IATA: ALCOHOLS, N.O.S. (METHANOL)
- Transport hazard class(es)
  - DOT: 3 Flammable liquids
Product name: RedLube Polishing Lubricant

- **Label**
  - Class
  - Label: Flammable liquids

- **Packing group**
  - DOT, IMDG, IATA: II

- **Environmental hazards:**
  - Marine pollutant: No

- **Special precautions for user**
  - Hazard identification number (Kemler code): Warning: Flammable liquids
  - EMS Number: F-E,S-D
  - Stowage Category: B

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**
  - DOT
    - Quantity limitations: On passenger aircraft/rail: 60 L
    - On cargo aircraft only: 220 L
    - Limited quantities (LQ): 1L
    - Transport category: 2
    - Tunnel restriction code: D/E

- **IMDG**
  - Limited quantities (LQ): 5L
  - Excepted quantities (EQ): Code: E1
  - Maximum net quantity per inner packaging: 30 ml
  - Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**
  - UN 1987 ALCOHOLS, N.O.S. (METHANOL), 3, II

### 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):**
    - 67-56-1 methyl alcohol
    - 7632-00-0 sodium nitrite
  - **TSCA (Toxic Substances Control Act):**
    - All components have the value ACTIVE.
  - **Hazardous Air Pollutants**
    - 67-56-1 methyl alcohol
  - **Proposition 65**
    - Chemicals known to cause cancer:
      - None of the ingredients is listed.
Product name: RedLube Polishing Lubricant

- 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:
  67-56-1 methyl alcohol

- 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: 05/01/2020 / 2.0
- 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
  BEE: Biological Exposure Limit
  Flam. Liq. 2: Flammable liquids – Category 2
  Flam. Liq. 3: Flammable liquids – Category 3
  Acute Tox. 3: Acute toxicity – Category 3
  Acute Tox. 4: Acute toxicity – Category 4
  Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
  STOT SE 1: Specific target organ toxicity (single exposure) – Category 1