1 Identification

· Product name: PurpleLube Polishing Lubricant
· Part number: 90-204995, -205000, -205005, -205010
· 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@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
  GHS02 Flame
  Flam. Liq. 2 H225 Highly flammable liquid and vapor.

  GHS07
  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
    GHS02 GHS07

· Signal word Danger
· Hazard statements
  Highly flammable liquid and vapor.
Product name: PurpleLube Polishing Lubricant

Causes serious eye irritation.

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.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
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 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.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:
- NFPA ratings (scale 0 - 4)
  Health = 2
  Fire = 3
  Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  HEALTH Health = 2
  FIRE Fire = 3
  REACTIVITY 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.

- Hazardous Components:
<table>
<thead>
<tr>
<th>Substance</th>
<th>Flam. Liq.</th>
<th>Acute Tox.</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethyl alcohol</td>
<td>H225</td>
<td>H302</td>
</tr>
</tbody>
</table>
  | 67-63-0 isopropyl alcohol| H225; H319; STOT SE 3, H336 | 50-100%
  | 57-55-6 propylene glycol| H302     | 10-25%

4 First-aid measures

- Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- 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.
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
  Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:
  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>PAC-1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethyl alcohol</td>
<td>1,800 ppm</td>
</tr>
<tr>
<td>67-63-0 isopropyl alcohol</td>
<td>400 ppm</td>
</tr>
<tr>
<td>57-55-6 propylene glycol</td>
<td>30 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethyl alcohol</td>
<td>3300* ppm</td>
</tr>
<tr>
<td>67-63-0 isopropyl alcohol</td>
<td>2000* ppm</td>
</tr>
<tr>
<td>57-55-6 propylene glycol</td>
<td>1,300 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PAC-3:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethyl alcohol</td>
<td>15000* ppm</td>
</tr>
</tbody>
</table>
Product name: PurpleLube Polishing Lubricant

67-63-0 isopropyl alcohol  12000** ppm
57-55-6 propylene glycol  7,900 mg/m³

7 Handling and storage

· Handling:
· Precautions for safe handling No special precautions are necessary if used correctly.
· Information about protection against explosions and fires:
  Keep ignition sources away - Do not smoke.
  Protect against electrostatic charges.
· 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:
    Keep receptacle tightly sealed.
    Store in cool, dry conditions in well sealed receptacles.
· 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:
    64-17-5 ethyl alcohol
    PEL Long-term value: 1900 mg/m³, 1000 ppm
    REL Long-term value: 1900 mg/m³, 1000 ppm
    TLV Short-term value: 1880 mg/m³, 1000 ppm

    67-63-0 isopropyl alcohol
    PEL Long-term value: 980 mg/m³, 400 ppm
    REL Short-term value: 1225 mg/m³, 500 ppm
    Long-term value: 980 mg/m³, 400 ppm
    TLV Short-term value: 984 mg/m³, 400 ppm
    Long-term value: 492 mg/m³, 200 ppm
    BEI

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

· Ingredients with biological limit values:
  67-63-0 isopropyl alcohol
  BEI 40 mg/L
  Medium: urine
  Time: end of shift at end of workweek
  Parameter: Acetone (background, nonspecific)

· Additional information: The lists that were valid during the creation were used as basis.
Product name: PurpleLube 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: Not required.
  - 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: Violet
  - Odor: Alcohol-like
  - Odor threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: 78 °C (172.4 °F)
- Flash point: 10 °C (50 °F)
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: 425 °C (797 °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.

(Contd. on page 6)
Product name: PurpleLube Polishing Lubricant

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Explosion limits:</td>
<td></td>
</tr>
<tr>
<td>· Lower:</td>
<td>3.5 Vol %</td>
</tr>
<tr>
<td>· Upper:</td>
<td>15 Vol %</td>
</tr>
<tr>
<td>· Vapor pressure at 20 °C (68 °F):</td>
<td>59 hPa (44.3 mm Hg)</td>
</tr>
<tr>
<td>· Density at 20 °C (68 °F):</td>
<td>0.82618 g/cm³ (6.89447 lbs/gal)</td>
</tr>
<tr>
<td>· Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Vapor density</td>
<td>1.5</td>
</tr>
<tr>
<td>· Specific gravity</td>
<td>0.8 (Water = 1)</td>
</tr>
<tr>
<td>· Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Solubility in / Miscibility with Water:</td>
<td>Fully miscible.</td>
</tr>
<tr>
<td>· Partition coefficient (n-octanol/water):</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Viscosity:</td>
<td></td>
</tr>
<tr>
<td>· Dynamic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Kinematic:</td>
<td>Not determined.</td>
</tr>
<tr>
<td>· Solvent content:</td>
<td></td>
</tr>
<tr>
<td>· Organic solvents:</td>
<td>100.0 %</td>
</tr>
<tr>
<td>· VOC content:</td>
<td>100.00 %</td>
</tr>
<tr>
<td>· Other information</td>
<td>826.2 g/l / 6.89 lb/gl</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 heat.
  - Keep away from oxidising agents and acidic substances.
  - Keep away from open flames. - No smoking.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: Carbon monoxide and carbon dioxide
- Additional information: Decomposition product 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: 13,333 mg/kg (rat)
      - Inhalative LC50/4 h: 200 mg/l (rat)
    - 64-17-5 ethyl alcohol
      - Oral LD50: 7,060 mg/kg (rat)
Product name: PurpleLube Polishing Lubricant

47.0

Dermal LD50 15,800 mg/kg (rabbit)
Inhalative LC50/4 h 20,000 mg/l (rat)

67-63-0 isopropyl alcohol

Oral LD50 5,045 mg/kg (rat)
Dermal LD50 12,800 mg/kg (rabbit)
Inhalative LC50/4 h 30 mg/l (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: Irritating effect.
  · Sensitization: No sensitizing effects known.
  · Additional toxicological information:

  · Carcinogenic categories
  · IARC (International Agency for Research on Cancer)
    64-17-5 ethyl alcohol 1
    67-63-0 isopropyl alcohol 3
  · 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** | UN1987 |
| **DOT, IMDG, IATA** |
| **UN proper shipping name** |
| **DOT** | Alcohols, n.o.s. (Ethanol, Isopropanol) |
| **IMDG** | ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL), ISOPROPANOL (ISOPROPYL ALCOHOL)) |
| **IATA** | ALCOHOLS, N.O.S. (ETHANOL, ISOPROPANOL (ISOPROPYL ALCOHOL)) |
| **Transport hazard class(es)** |
| **DOT** |
| **Class** | 3 Flammable liquids |
| **Label** | 3 |
| **IMDG, IATA** |
| **Class** | 3 Flammable liquids |
| **Label** | 3 |
| **Packing group** |
| **DOT, IMDG, IATA** | II |
| **Environmental hazards:** |
| **Marine pollutant:** | No |
| **Special precautions for user** |
| **Warning:** Flammable liquids |
| **Danger code (Kemler):** | 33 |
| **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: 5 L |
| On cargo aircraft only: 60 L |
| **IMDG** |
| **Limited quantities (LQ)** | 1L |
Product name: PurpleLube Polishing Lubricant

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):
    67-63-0 isopropyl alcohol
- TSCA (Toxic Substances Control Act):
  All ingredients are 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:
    64-17-5 ethyl alcohol
- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    None of the ingredients is listed.
  - TLV (Threshold Limit Value established by ACGIH)
    64-17-5 ethyl alcohol A3
    67-63-0 isopropyl alcohol A4
- 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 06/14/2018 / -
- 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
Safety Data Sheet
acc. to OSHA HCS

Product name: PurpleLube Polishing Lubricant

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)
NFFA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LD50: Lethal concentration, 50 percent
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

(Contd. of page 9)