1 Identification

- **Product name:** Diamond Aerosol Spray
- **Part number:** 90-173000 - 90-173025
- **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**
  - GHS02 Flame
    Flam. Aerosol 1   H222   Extremely flammable aerosol.
  - GHS08 Health hazard
    Carc. 2   H351   Suspected of causing cancer.
    STOT SE 2   H371   May cause damage to the heart, the skin, the blood system and the eyes.
  - GHS07
    Eye Irrit. 2A   H319   Causes serious eye irritation.
    STOT SE 3   H336   May cause drowsiness or dizziness.
    Simple Asphyxiant   May displace oxygen and cause rapid suffocation.

- **Label elements**
  - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
Product name: Diamond Aerosol Spray

- **Hazard pictograms**

  ![GHS02](image1) ![GHS07](image2) ![GHS08](image3)

- **Signal word** Danger

- **Hazard-determining components of labeling:**
  - methyl isobutyl ketone
  - isopropyl alcohol
  - methyl alcohol

- **Hazard statements**
  - Extremely flammable aerosol.
  - Causes serious eye irritation.
  - Suspected of causing cancer.
  - May cause damage to the heart, the skin, the blood system and the eyes.
  - May cause drowsiness or dizziness.
  - May displace oxygen and cause rapid suffocation.

- **Precautionary statements**
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
  - Do not spray on an open flame or other ignition source.
  - Pressurized container: Do not pierce or burn, even after use.
  - 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 in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - IF exposed or concerned: Get medical advice/attention.
  - IF eye irritation persists: Get medical advice/attention.
  - Store locked up.
  - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**

    ![NFPA ratings](image4)

    - Health = 1
    - Fire = 4
    - Reactivity = 0

  - **HMIS-ratings (scale 0 - 4)**

    ![HMIS-ratings](image5)

    - Health = 1
    - Fire = 4
    - Reactivity = 0

- **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
Product name: Diamond Aerosol Spray

· 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 ID</th>
<th>Substance Name</th>
<th>Hazard Class</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>68476-86-8</td>
<td>Petroleum gases, liquefied, sweetened</td>
<td>Flam. Gas 1, H220; Press. Gas, H280</td>
<td>25-50%</td>
</tr>
<tr>
<td>64-17-5</td>
<td>ethyl alcohol</td>
<td>Flam. Liq. 2, H225</td>
<td>25-50%</td>
</tr>
<tr>
<td>67-63-0</td>
<td>isopropyl alcohol</td>
<td>Flam. Liq. 2, H225; Eye Irrit. 2A, H319; STOT SE 3, H336</td>
<td>10-25%</td>
</tr>
<tr>
<td>67-56-1</td>
<td>methyl alcohol</td>
<td>Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>108-10-1</td>
<td>methyl isobutyl ketone</td>
<td>Flam. Liq. 2, H225; Carc. 2, H351; Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

#### Non-hazardous Components:

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Substance Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>7782-40-3</td>
<td>Diamond</td>
<td>≤ 2.5%</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>water, distilled, conductivity or of similar purity</td>
<td>2.5-10%</td>
</tr>
</tbody>
</table>

· **Additional information:** Water is a byproduct of ethyl alcohol and is naturally occurring in this product.

### 4 First-aid measures

- **Description of first aid measures**
  - **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. 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
    - 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.
  - **Special hazards arising from the substance or mixture**
    - No further relevant information available.
6 Accidental release measures

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

- **Methods and material for containment and cleaning up:**
  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**

  **PAC-1:**
  - ethyl alcohol 1,800 ppm
  - isopropyl alcohol 400 ppm
  - methyl alcohol 530 ppm
  - methyl isobutyl ketone 75 ppm
  - Diamond 6.3 mg/m³

  **PAC-2:**
  - ethyl alcohol 3300* ppm
  - isopropyl alcohol 2000* ppm
  - methyl alcohol 2,100 ppm
  - methyl isobutyl ketone 500 ppm
  - Diamond 69 mg/m³

  **PAC-3:**
  - ethyl alcohol 15000* ppm
  - isopropyl alcohol 12000** ppm
  - methyl alcohol 7200* ppm
  - methyl isobutyl ketone 3000* ppm
  - Diamond 1,100 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:**
    Do not spray on a naked flame or any incandescent material.
    Keep ignition sources away - Do not smoke.
    Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Product name: Diamond Aerosol Spray

- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:**
    Observe official regulations on storing packagings with pressurized containers.
  - **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:**
    The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    At this time, the remaining constituent has no known exposure limits.

<table>
<thead>
<tr>
<th>64-17-5 ethyl alcohol</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 1900 mg/m³, 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>REL Long-term value: 1900 mg/m³, 1000 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV Short-term value: 1880 mg/m³, 1000 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>67-63-0 isopropyl alcohol</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 980 mg/m³, 400 ppm</td>
<td></td>
</tr>
<tr>
<td>REL Short-term value: 1225 mg/m³, 500 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 980 mg/m³, 400 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV Short-term value: 984 mg/m³, 400 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 492 mg/m³, 200 ppm</td>
<td></td>
</tr>
<tr>
<td>BEI</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>67-56-1 methyl alcohol</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 260 mg/m³, 200 ppm</td>
<td></td>
</tr>
<tr>
<td>REL Short-term value: 325 mg/m³, 250 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 260 mg/m³, 200 ppm</td>
<td></td>
</tr>
<tr>
<td>Skin</td>
<td></td>
</tr>
<tr>
<td>TLV Short-term value: 328 mg/m³, 250 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 262 mg/m³, 200 ppm</td>
<td></td>
</tr>
<tr>
<td>Skin; BEI</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>108-10-1 methyl isobutyl ketone</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL Long-term value: 410 mg/m³, 100 ppm</td>
<td></td>
</tr>
<tr>
<td>REL Short-term value: 300 mg/m³, 75 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 205 mg/m³, 50 ppm</td>
<td></td>
</tr>
<tr>
<td>TLV Short-term value: 307 mg/m³, 75 ppm</td>
<td></td>
</tr>
<tr>
<td>Long-term value: 82 mg/m³, 20 ppm</td>
<td></td>
</tr>
<tr>
<td>BEI</td>
<td></td>
</tr>
</tbody>
</table>

- **Ingredients with biological limit values:**

<table>
<thead>
<tr>
<th>67-63-0 isopropyl alcohol</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI 40 mg/L</td>
<td></td>
</tr>
<tr>
<td>Medium: urine</td>
<td></td>
</tr>
<tr>
<td>Time: end of shift at end of workweek</td>
<td></td>
</tr>
<tr>
<td>Parameter: Acetone (background, nonspecific)</td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 6)
Product name: Diamond Aerosol Spray

<table>
<thead>
<tr>
<th>67-56-1 methyl alcohol</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI 15 mg/L</td>
</tr>
<tr>
<td>Medium: urine</td>
</tr>
<tr>
<td>Time: end of shift</td>
</tr>
<tr>
<td>Parameter: Methanol (background, nonspecific)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>108-10-1 methyl isobutyl ketone</th>
</tr>
</thead>
<tbody>
<tr>
<td>BEI 1 mg/L</td>
</tr>
<tr>
<td>Medium: urine</td>
</tr>
<tr>
<td>Time: end of shift</td>
</tr>
<tr>
<td>Parameter: MIBK</td>
</tr>
</tbody>
</table>

- **Additional information:** The lists that were valid during the creation were used as basis.
- **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:**
    - Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
    - **Material of gloves**
      - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
    - **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: Aerosol
      - Color: According to product specification
      - Odor: Alcohol-like
      - Odor threshold: Not determined.
    - **pH-value:** Not determined.
  - **Change in condition**
    - Melting point/Melting range: Undetermined.
### 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**:
  - Formaldehyde
  - Carbon monoxide and carbon dioxide
11 Toxicological information

· Additional information: Hazardous decomposition products may form during combustion.

<table>
<thead>
<tr>
<th>11 Toxicological information</th>
</tr>
</thead>
<tbody>
<tr>
<td>· Information on toxicological effects</td>
</tr>
<tr>
<td>· Acute toxicity:</td>
</tr>
<tr>
<td>· LD/LC50 values that are relevant for classification:</td>
</tr>
<tr>
<td><strong>ATE (Acute Toxicity Estimate)</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
<tr>
<td><strong>64-17-5 ethyl alcohol</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
<tr>
<td><strong>67-63-0 isopropyl alcohol</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
<tr>
<td><strong>67-56-1 methyl alcohol</strong></td>
</tr>
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</tr>
<tr>
<td><strong>108-10-1 methyl isobutyl ketone</strong></td>
</tr>
<tr>
<td>Oral</td>
</tr>
<tr>
<td>Dermal</td>
</tr>
<tr>
<td>Inhalative</td>
</tr>
</tbody>
</table>

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

· Sensitization: No sensitizing effects known.

· Additional toxicological information:
  Specific Target Organ Toxicity - Single Exposure 3 - Target Organ: central nervous system depression

· Carcinogenic categories

  · IARC (International Agency for Research on Cancer)
    
    | Compound | Carcinogenicity |
    |----------|----------------|
    | 64-17-5 ethyl alcohol | 1 |
    | 67-63-0 isopropyl alcohol | 3 |
    | 108-10-1 methyl isobutyl ketone | 2B |

  · 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.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- UN-Number
- DOT, IMDG, IATA: UN1950
- UN proper shipping name
- DOT: Aerosols, flammable
- IMDG: AEROSOLS
- IATA: AEROSOLS, flammable
- Transport hazard class(es)
  - DOT
    - Class: 2.1
    - Label: 2.1
  - IMDG, IATA
    - Class: 2.1
Safety Data Sheet
acc. to OSHA HCS

Product name: Diamond Aerosol Spray

- **Label**
- **Packing group**
- **DOT, IMDG, IATA**
- **Environmental hazards:**
  - Marine pollutant:
- **Special precautions for user**
  - Danger code (Kemler):
  - EMS Number:
- **Stowage Code**
  - SW1 Protected from sources of heat.
  - SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
- **Segregation Code**
  - SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Slow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
- **Transport/Additional information:**
  - DOT
  - Quantity limitations
    - On passenger aircraft/rail: 75 kg
    - On cargo aircraft only: 150 kg
- **IMDG**
  - Limited quantities (LQ)
  - Excepted quantities (EQ)
    - Code: E0
    - Not permitted as Excepted Quantity
- **UN "Model Regulation":**
  - UN 1950 AEROSOLS, 2.1

## 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
    - 67-56-1 methyl alcohol
    - 108-10-1 methyl isobutyl ketone
- **TSCA (Toxic Substances Control Act):**
  - 64-17-5 ethyl alcohol
  - 67-63-0 isopropyl alcohol
  - 67-56-1 methyl alcohol
Safety Data Sheet  
acc. to OSHA HCS

Product name: Diamond Aerosol Spray

108-10-1 methyl isobutyl ketone
7782-40-3 Diamond
7732-18-5 water, distilled, conductivity or of similar purity

- TSCA new (21st Century Act) (Substances not listed)
  68476-86-8 Petroleum gases, liquefied, sweetened
  7782-40-3 Diamond

- Proposition 65

- Chemicals known to cause cancer:
  108-10-1 methyl isobutyl ketone

- 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
  67-56-1 methyl alcohol
  108-10-1 methyl isobutyl ketone

- Carcinogenic categories
  - EPA (Environmental Protection Agency)
    108-10-1 methyl isobutyl ketone

  - TLV (Threshold Limit Value established by ACGIH)
    64-17-5 ethyl alcohol
    67-63-0 isopropyl alcohol

  - 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 06/12/2018 /

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
Product name: Diamond Aerosol Spray

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
BEI: Biological Exposure Limit
Flam. Gas 1: Flammable gases – Category 1
Flam. Aerosol 1: Aerosols – Category 1
Press. Gas: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Carc. 2: Carcinogenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 1: Specific target organ toxicity (single exposure) – Category 1
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3