1 Identification of the substance/mixture and of the company/undertaking

- **Product Catalog Numbers** - 13035, 13033
- **Trade name**: Wenol Metal Polish

- **Relevant identified uses of the substance or mixture and uses advised against**
  No further relevant information available.

- **Application of the substance / the preparation**: Cleaner for preparing samples for microscopy.

- **Details of the supplier of the material on the safety data sheet**

  Ladd Research
  83 Holly Court
  Williston, VT 05495 USA
  Phone: +1-802-658-4961
  Fax: +1-802-660-8859
  sales@laddresearch.com
  Emergency Contact: 24/7/365 - +1-703-741-5500 (Chemtrec)

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

  ![GHS02 flame]
  GHS02 flame
  Flam. Liq. 3 H226 Flammable liquid and vapour.

  ![GHS08 health hazard]
  GHS08 health hazard
  Muta. 1B H340 May cause genetic defects.
  Carc. 1B H350 May cause cancer.
  Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

  ![GHS05 corrosion]
  GHS05 corrosion
  Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
  The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)
Trade name: Wenol Metal Polish

- **Hazard pictograms**
  - GHS02
  - GHS05
  - GHS08

- **Signal word** Danger

- **Hazard-determining components of labelling:**
  - White Spirit 150/200N
  - ammonia, anhydrous
  - Kerosine (petroleum)

- **Hazard statements**
  - H226 Flammable liquid and vapour.
  - H314 Causes severe skin burns and eye damage.
  - H340 May cause genetic defects.
  - H350 May cause cancer.
  - H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**
  - P101 If medical advice is needed, have product container or label at hand.
  - P102 Keep out of reach of children.
  - P103 Read label before use.
  - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
  - P305+P351+P338 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 Immediately call a POISON CENTER or doctor/physician.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Information concerning particular hazards for human and environment:**
  - Appearance: Slightly red, pinkish paste.
  - Immediate effects: Irritant.

Potential health effects
Primary Routes of entry: Ingestion and skin contact.
Signs and Symptoms of Overexposure: ND
Eyes: May cause irritation and conjunctivitis. Dry dust may cause irritation.
Skin: Repeated or prolonged exposure may cause defatting of skin leading to irritation and dermatitis.
Ingestion: May cause irritation.
Inhalation: Repeated and prolonged exposure to high concentrations of vapor may result in central nervous system damage. When vapor pressure is low there are no adverse effects. Dry dust may form respirable particulates if disturbed.
Chronic Exposure: ND
Chemical Listed As Carcinogen Or Potential Carcinogen: None
See Toxicological Information (Section11)

Potential environmental effects
See Ecological Information (Section 12)

- **Other hazards**
- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
Safety data sheet

Trade name: Wenol Metal Polish

3 Composition/information on ingredients

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

<table>
<thead>
<tr>
<th>CAS</th>
<th>EINECS</th>
<th>Composition</th>
<th>Risk Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>64742-82-1</td>
<td>265-185-4</td>
<td>White Spirit 150/200N</td>
<td>Muta. 1B; H340; Carc. 1B; H350; Asp. Tox. 1; H304</td>
</tr>
<tr>
<td>7664-41-7</td>
<td>231-635-3</td>
<td>ammonia, anhydrous</td>
<td>Flam. Liq. 3, H226; Press. Gas, H280; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Flam. Gas 2, H221</td>
</tr>
<tr>
<td>8008-20-6</td>
<td>232-366-4</td>
<td>Kerosine (petroleum)</td>
<td>Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>88603-42-9</td>
<td></td>
<td>Coco fatty acid diethanolamide</td>
<td>Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335</td>
</tr>
<tr>
<td>1344-28-1</td>
<td>215-691-6</td>
<td>Aluminum oxide</td>
<td>Al. Tox. 1, H304</td>
</tr>
</tbody>
</table>

4 First aid measures

- Description of first aid measures
- After inhalation: Remove to fresh air and rest until symptoms resolve. If irritation persists, seek medical advice.
- After skin contact: Wash with water until soapiness is removed.
- After eye contact: Flush eyes immediately with copious amounts of water for at least 15 minutes. If irritation persists, seek medical attention.
- After swallowing: Do not induce vomiting. Give water to drink to wash the alkaline product into stomach. Milk may be used to reduce the irritant effects of kerosene. Seek medical advice.

- Information for doctor:
  - Most important symptoms and effects, both acute and delayed
  - No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

5 Firefighting measures

- Extinguishing media: Flash Point: >50 °C
- Suitable extinguishing agents: Dry foam, dry chemical or water spray, carbon dioxide and sand or earth.
- Special hazards arising from the substance or mixture
  - Hazardous combustion products: Carbon monoxide, oxides of nitrogen, oxides of sulfur, and unburned hydrocarbons.
- Advice for firefighters
- Protective equipment: Wear self-contained breathing apparatus that is NIOSH approved. Use flooding quantities of water until well after fire is out.
- Additional information
  - Organic dust particles in the atmosphere are combustible and may be explosive. Keep away from ignition sources.
Trade name: Wenol Metal Polish

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective gloves and glasses.

- Environmental precautions:
  Do not allow product to reach sewage system or any water course.
  Inform respective authorities in case of seepage into water course or sewage system.
  Dilute with plenty of water.
  Do not allow to enter sewers/ surface or ground 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.
  Spillage of up to 5 liters may be mopped up with a cloth.
  Large Spills: If possible ventilate the area. The spillage should be placed into a suitable container for subsequent disposal.

- 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.

7 Handling and storage

- Handling:
  - Precautions for safe handling
    Use in well ventilated areas, wear suitable gloves if prolonged exposure is anticipated. Store in a cool, dry, frost free place, and out of reach of children and closed in original packs. Avoid contact with hot surfaces, organic vapors will be given off, and in an improperly ventilated area an explosion hazard could be created.

- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions: Keep container tightly sealed.
    - Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

- Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists valid during the making were used as basis.

- Exposure controls
  - General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed.
    Remove all soiled and contaminated clothing.
    Wash hands before breaks and at the end of work.
    Avoid contact with the eyes and skin.

(Contd. on page 5)
Trade name: Wenol Metal Polish

- **Respiratory protection:**
  In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**
  Protective gloves
  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
  Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
  Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  **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

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Information</strong></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Viscous</td>
</tr>
<tr>
<td>Colour: Red</td>
</tr>
<tr>
<td>Odour: Ammonia-like</td>
</tr>
<tr>
<td>Odour threshold: Not determined.</td>
</tr>
<tr>
<td>pH-value: Not determined.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Change in condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/Melting range: Undetermined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range: 221 °C</td>
</tr>
</tbody>
</table>

| Flash point: > 50 °C                                 |

| Flammability (solid, gaseous): Not applicable.        |

<table>
<thead>
<tr>
<th>Ignition temperature:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition temperature: Not determined.</td>
</tr>
<tr>
<td>Self-igniting: Product is not selfigniting.</td>
</tr>
<tr>
<td>Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Explosion limits:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower: Not determined.</td>
</tr>
</tbody>
</table>
Safety data sheet

Trade name: Wenol Metal Polish

(Contd. of page 5)

<table>
<thead>
<tr>
<th>Upper:</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Vapour pressure at 20 °C:</td>
</tr>
<tr>
<td>23 hPa</td>
</tr>
<tr>
<td>- Density at 20 °C:</td>
</tr>
<tr>
<td>1.15 g/cm³</td>
</tr>
<tr>
<td>- Relative density</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>- Vapour density</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>- Evaporation rate</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>- Solubility in / Miscibility with water:</td>
</tr>
<tr>
<td>Fully miscible.</td>
</tr>
<tr>
<td>- Partition coefficient (n-octanol/water):</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>- Viscosity:</td>
</tr>
<tr>
<td>Dynamic:</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic:</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>- Solvent content:</td>
</tr>
<tr>
<td>Organic solvents:</td>
</tr>
<tr>
<td>0.0 %</td>
</tr>
<tr>
<td>Water:</td>
</tr>
<tr>
<td>35.0 %</td>
</tr>
<tr>
<td>VOC (EC):</td>
</tr>
<tr>
<td>0.00 %</td>
</tr>
<tr>
<td>- Solids content:</td>
</tr>
<tr>
<td>50.0 %</td>
</tr>
<tr>
<td>- Other information</td>
</tr>
<tr>
<td>No further relevant information available.</td>
</tr>
</tbody>
</table>

10 Stability and reactivity

- Reactivity
  - Chemical stability: Stable under normal conditions.
  - Thermal decomposition / conditions to be avoided:
    - No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: Temperatures in excess of 50 °C.
  - Incompatible materials: Strong oxidising agents.
  - Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - Primary irritant effect:
      - on the skin: Irritant to skin and mucous membranes.
      - on the eye: Irritating effect.
      - Sensitization: Sensitization possible through skin contact.
    - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
      - Muta. 1B, Carc. 1B

12 Ecological information

- Toxicity
  This product contains 10-20 % of white spirit which is highly volatile and will rapidly evaporate to the air if released into the environment. Based upon data for similar materials, white spirit is classified as R51/53, toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment. Although data show that white spirit is not expected to persist in the aquatic environment, European Classification rules require that it be classified as potential hazard causing long-term adverse effects in the aquatic environment.

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Trade name: Wenol Metal Polish

Chemical Fate Information: White spirit is expected to biodegrade rapidly and be “readily” biodegradable according to OECD guidelines. It can degrade rapidly in air and is expected to be removed in a waste water treatment facility.

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Ecotoxicological effects:
  - Remark: Harmful to fish
- Additional ecological information:
  - General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  Do not allow product to reach ground water, water course or sewage system.
  Harmful to aquatic organisms
- 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
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

<table>
<thead>
<tr>
<th></th>
<th>ADR, IMDG, IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-Number</td>
<td>--</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Not restricted</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>--</td>
</tr>
<tr>
<td>Packing group</td>
<td>--</td>
</tr>
<tr>
<td>Environmental hazards:</td>
<td></td>
</tr>
<tr>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

(Contd. of page 6)

(Contd. on page 8)
Trade name: Wenol Metal Polish

15 Regulatory information

- **Chemical safety assessment**: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H221 Flammable gas.
  - H226 Flammable liquid and vapour.
  - H280 Contains gas under pressure; may explode if heated.
  - H304 May be fatal if swallowed and enters airways.
  - H314 Causes severe skin burns and eye damage.
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H331 Toxic if inhaled.
  - H335 May cause respiratory irritation.
  - H340 May cause genetic defects.
  - H350 May cause cancer.
  - H400 Very toxic to aquatic life.

- **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)
  - DOT: US Department of Transportation
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - 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)
  - VOC: Volatile Organic Compounds (USA, EU)

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