Section 1 – Chemical Product and Company Identification

Product Name : Power Metrol AL Heavy
Chemical Family : Water Soluble Cutting Oil.
Chemical Formula : CSA-0430
CAS Number : 64742-52-5
Company Contact : Phone Number : +91-22-27694756.
Fax Number : +91-22-27602692
EMERGENCY TELEPHONE NUMBERS : Apar Industries Limited : +91-(0)-9324672241

Section 2 – Composition And Information On Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Number</th>
<th>% (Opt.)</th>
<th>Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severely Hydrotreated</td>
<td>64742-52-5</td>
<td>80 - 90 %</td>
<td>No</td>
</tr>
<tr>
<td>Naphthenic Petroleum Oil.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petroleum sulphonate</td>
<td>Mixture</td>
<td>10 – 20 %</td>
<td>No</td>
</tr>
</tbody>
</table>

SECTION –3 HAZARDOUS IDENTIFICATION

Primary Entry Route : Skin
Inhalation : Inhalation of vapors or mist may be irritating to respiratory passages. Prolonged exposure may result in dizziness and nausea. Target Organ for mineral oil mist is lungs.
Eye : Eye contact may result in slight irritation and redness.
Skin : Short term contact with skin is unlikely to cause any problems; excessive or prolonged and repeated contact and poor hygiene conditions many result in dryness, dermatitis, oil acne, cracking and deflating of the skin. Personnel with pre-existing skin disorders should avoid contact with this product.
Ingestion : May result in nausea or stomach discomfort.

Section 4 – First Aid Measures

Eye Contact : Flush eyes immediately with plenty of water 15 minutes or until irritation. If redness persists, seek medical help.
Skin Contact : Wash thoroughly with soap wand water. Remove contaminated clothing. Reuse only after cleaning.
Inhalation : Remove to fresh air. Assist breathing if necessary. Seek medical help.
Aspiration : If there is any suspicion of aspiration into the lungs obtain medical advise.
Ingestion : If swallowed, observe for signs of stomach discomfort or nausea. If symptoms persist, seek medical help. Do induce vomiting.

Section 5 – Fire Fighting Measures

Flash Point : >186 °C Flash Point Method : COC
Auto ignition Temperature : NA
Lower Explosive Level (LEL): Not determined Upper Explosive Limit (UEL): Not determined
Flammability Classification : OSHA Class III-B Combustible Liquid
Extinguishing Media : Dry Chemical Powder, Foam, CO2 and water or fog. Water may be used to cool below flash point.
Unusual Fire or Explosion Hazards : Do not use forced stream as this could cause fire to spread. Combustion Products: Fumes, Smoke, and Carbon monoxide.
Fire-fighting Instruction and Equipment : Use waste to cool containers exposed to flames. Do not enter enclosed or a confined work space without proper protective equipment. Fire fighting personnel should wear respiratory protection (positive pressure if available).
### Section 6 - Accidental release Measures

**Spill / Leak Procedures**: Stop spill at source if possible without risk. Contain spill. Eliminate sources of ignition. Spill area will be slick. Recover all possible material for reclamation. Use non-flammable absorbent material to pick up remainder of spill.  
**Spill to navigable Waters**: If this material is spilled into navigable waters and creates a visible sheen, it is reportable to Local Response Centre.

### Section 7 – Handling and Storage

**Handling and storage Precautions**: Keep away from flames, sparks or hot surfaces. Never use a torch to cut or weld on or near container. Empty oil containers can contain explosive vapors. NFPA Class IIIB storage. Wash thoroughly after handling.

**Work / Hygienic Practices**: Wash hands with soap and water before eating, drinking, smoking or use of toilet facilities. Take shower after work if general contact occurs. Remove oil-soaked and launder before reuse. Discard contaminated shoes and leather gloves.

### Section 8 – Exposure Controls / Personal Protection

**Engineering Controls**: Adequate ventilation is required where excessive heating or agitation may occur to maintain concentration below exposures limits.  
**Eye / Face Protection**: Safety glasses or face shield where splashing is possible.  
**Skin Protection**: Avoid prolonged and or repeated skin contact. If prolonged contact can not be avoided, wear protective gloves (solvent resistant gloves) and clothing.  
**Respiratory Protection**: Normally not required. Respirator should be used in areas where vapor concentration are excessive due to high temperatures or where oil misting occurs.

### Section 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid.</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild petroleum odor.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.87 – 0.90</td>
</tr>
<tr>
<td>(Water =1)</td>
<td></td>
</tr>
<tr>
<td>% Volatiles by volume @ 21°C (70°F)</td>
<td>Nil</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg @ 70°F)</td>
<td>No Data</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>212°F</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>&gt; 1</td>
</tr>
</tbody>
</table>

### Section 10 – Stability and reactivity

**Stability**: Stable under ordinary conditions of use and storage.  
**Polymerization**: Polymerization will not occur.  
**Chemical Incompatibilities**: Strong oxidizing & reducing agents, strong alkalies and strong acids.  
**Condition to Avoid**: Source of ignition.  
**Hazardous Decomposition Products**: Combustion may produce carbon monoxide and carbon dioxide.

### Section 11 – Toxicological Information

**Eyes Effects**: Minimal irritation on contact.  
**Skin Effects**: Practically non-toxic if absorbed. May cause mild irritation with prolonged and repeated exposure.  
**Acute Oral Effects**: Tests on similar material indicate low order of acute oral toxicity.  
**Acute Inhalation Effects**: Low acute toxicity expected on inhalation.
Section 12 – Ecological Information

Environmental Fate: No information found.
Environmental Toxicity: No information found.

Section 13 – Disposal Considerations

Follow National, State and Local regulations. Not a RCRA hazardous waste if uncontaminated. If “used”, RCRA criteria must be determined. Do not flush to drain/storm sewer. If permitted incineration may be practical. Consider recycling.

Section 14- Transport Information

DOT Shipping Label: Not regulated by DOT

Section 15- Regulatory Information

CERCLA/SARA:
302/303/304 categories: Extremely hazardous substances: None
311/312 categories: Immediate (acute) Health Effects: No
 Delayed (chronic) health effects: No
 Fire Hazards: No
313 categories: Toxic Chemicals (40 CFR 372): None
Clean Air act: Hazardous Air Pollutants (HAPS): None
 Ozone depleting Compounds (ODC): None
EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals CAS No: 64742-52-5
Foreign Inventories: The components of this product are listed under the following inventories:
 CANADA (DSL No.: 64742-52-5
 European Union’s EINICS No. 265-156-6
 Korea’s a ECL No. KE-12552
 Australia’s ACS No. 64742-52-5
 Philippines’PICCS-on list

Section 16- Other Information

<table>
<thead>
<tr>
<th>Hazard Rating</th>
<th>NFPA/HMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = Least 1 = Slight 2 = Moderate</td>
<td>Health = 1</td>
</tr>
<tr>
<td>3 = High 4 = Extreme</td>
<td>Fire = 1</td>
</tr>
<tr>
<td></td>
<td>Reactivity = 0</td>
</tr>
</tbody>
</table>

Prepared By: SHE Department.

Revision Information: Date of preparation: 18th October 2007

Disclaimer:

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