RELIAPRESS RB Series
Chlorine-free high performance deformation processing oil for stainless steel material

RELIAPRESS RB Series is press oil especially for press works such as deep-drawing, punching and bending work of hard-to-process materials such as SUS304 stainless steel.

● Special Features
1. RELIAPRESS RB has high processing performance comparable to that of chlorinated processing oil by using original additive blending technology that does not use chlorine type additives.
2. RELIAPRESS RB keeps operation temperature low by the excellent lubricity. It can suppress the surface coloration of products, and also prolong metallic mold life.
3. RELIAPRESS RB is suitable as a press oil for wide materials such as SS, SC and SUS, etc. In particular, it will deliver high performance in the processing of SUS material.
4. RELIAPRESS RB is environmentally-friendly oil free of dioxin generation, because chlorine and lead additives are not contained. It can also prevent forming rust on products and machines.

● Applications
RELIAPRESS RB is suitable for metal forming such as deep drawing, punching and bending of steel sheets (carbon steel sheet and galvanized steel sheet) and stainless steel plate.

● Containers
200-liter drums and 20-liter cans

● Typical Properties of RELIAPRESS RB Series

<table>
<thead>
<tr>
<th>Grade</th>
<th>50</th>
<th>90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color (ASTM)</td>
<td>L6.0</td>
<td>L6.5</td>
</tr>
<tr>
<td>Density (15°C)</td>
<td>1.024</td>
<td>1.026</td>
</tr>
<tr>
<td>Kinematic viscosity (40°C)</td>
<td>50</td>
<td>90</td>
</tr>
<tr>
<td>Flash point (COC)</td>
<td>182</td>
<td>198</td>
</tr>
<tr>
<td>Acid number</td>
<td>mg KOH/g</td>
<td>45</td>
</tr>
<tr>
<td>Saponification number</td>
<td>mg KOH/g</td>
<td>150</td>
</tr>
<tr>
<td>Copper strip corrosion (100°C, 1h)</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Sulfur content</td>
<td>mass%</td>
<td>11.5</td>
</tr>
</tbody>
</table>

Note: The typical properties may be changed without notice. (Feb. 2017)
## Handling Precautions ▼

Follow these precautions when handling this product.

<table>
<thead>
<tr>
<th>Composition</th>
<th>Base Oil, Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazard pictograms:</td>
<td><img src="image" alt="Hazard pictograms" /></td>
</tr>
<tr>
<td>Signal word:</td>
<td>Danger</td>
</tr>
</tbody>
</table>
| Hazard Statement: | Causes skin irritation  
Causes serious eye damage  
Harmful to aquatic life  
Toxic to aquatic life with long lasting effects |
| Precautionary Statements: |  
**Prevention**  
- Do not handle until all safety precautions have been read and understood. (P202)  
- Wear protective gloves/protective clothing/eye protection/face protection. (P280)  
- Do not allow the eyes to become exposed to the product. Do not swallow the product.  
- Avoid release to the environment. (P273)  
- Wash hands thoroughly after handling.  
- Do not eat, drink or smoke when using this product. (P270)  
**Response**  
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. (P301+P310)  
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)  
- If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.  
- IF ON SKIN: Wash with plenty of soap and water. (P302+P352)  
- Take off contaminated clothing and wash before reuse. (P362+P364)  
- If skin irritation occurs: Get medical advice/attention. (P332+P313)  
- IF IN EYES: Rinse continuously with water for several minutes.  
- Remove contact lenses if present and easy to do. Continue rinsing. (P305+P351+P338)  
- Immediately call a POISON CENTER or doctor/physician. (P310)  
- Collect spillage. (P391)  
**Storage**  
- The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.  
- Containers that have been opened must be tightly sealed.  
**Disposal**  
- Dispose of contents/container in accordance with local/regional/national/international regulations.  
- If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage. |