RELIACUT DH 20 is an inactive sulfur type, non-chlorinated anti-mist water-insoluble cutting and grinding fluid that uses high performance, high flash point base oils and unique additive technology. RELIACUT DH 20 has a higher flash point than popular market products of the same viscosity grade, and is suitable for machining of automatic lathes, turning and machining centers. RELIACUT DH 20 is the ideal oil for many metalworking applications of wide range of materials such as non-ferrous metals (copper materials), steel materials and alloy steel. RELIACUT DH 20 corresponds to JIS K 2241 Type N, No.4.

- **Special Features**

  1. **Excellent Cutting and Grinding Performance**
     
     Because RELIACUT DH 20 uses highly refined base oils and uses special additive technology, it demonstrates excellent machining performance in general cutting and grinding processes.

  2. **Excellent Anti-mist Performance**
     
     RELIACUT DH 20 contains special mist prevention agents that reduce the amount of oil mist formed during machining. Thus, improved working environment would be obtained.

  3. **Low odor**
     
     Since the additives of RELIACUT DH 20 are low odor, the work environment is improved.

  4. **Contribution to the viewing of the processing point**
     
     RELIACUT DH 20 can enable to watch the processing point easily because of the reduced floating mist and light oil color.

  5. **High flash point**
     
     Since RELIACUT DH 20 uses high performance, high flash point base oils, it has a higher flash point than popular market products of the same viscosity grade. For this reason, RELIACUT DH 20 contributes to increase the quantity of hazardous materials designated by Fire Service Act.

  6. **Friendly to machine tools**
     
     Because RELIACUT DH 20 is formulated with less corrosive additives, it does not easily damage machine tool materials such as copper piping.

- **Applications**

  Automatic lathes, turning and machining centers for steel materials including non-ferrous metals to cast iron, carbon steel and alloy steel

- **Containers**

  200-liter drums and 20-liter cans

- **Typical Properties of RELIACUT DH 20**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>yellow</td>
</tr>
<tr>
<td>Color (ASTM)</td>
<td>L.2.5</td>
</tr>
<tr>
<td>Density</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Kinematic viscosity (40°C)</td>
<td>mm²/s</td>
</tr>
<tr>
<td>Flash point (COC)</td>
<td>°C</td>
</tr>
<tr>
<td>Pour point</td>
<td>°C</td>
</tr>
<tr>
<td>Acid number</td>
<td>mgKOH/g</td>
</tr>
<tr>
<td>Copper corrosion (100°C, 1h)</td>
<td>g/cm³</td>
</tr>
<tr>
<td>Fatty content</td>
<td>mass%</td>
</tr>
<tr>
<td>Sulfur content</td>
<td>mass%</td>
</tr>
</tbody>
</table>

Note: The typical properties may be changed without notice. (January 2020)
### Handling Precautions

Follow these precautions when handling this product.

<table>
<thead>
<tr>
<th>Composition:</th>
<th>Base Oil(s), Additives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautionary pictograms:</td>
<td><img src="image" alt="Pictogram" /></td>
</tr>
<tr>
<td>Signal word:</td>
<td>Danger</td>
</tr>
<tr>
<td>Hazard Statement:</td>
<td>May be fatal if swallowed and enters airways</td>
</tr>
</tbody>
</table>

**Precautionary Statements: Prevention**
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not allow the eyes to become exposed to the product. Do not swallow the product.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.

**Response**
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- 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.
- Do NOT induce vomiting.

**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.
- Store locked up.

**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.