DESCRIPTION
CIMFREE VG-901ZH is a vegetable-based metalworking fluid.

APPLICATION
CIMFREE VG-901ZH is recommended for a wide variety of heavy duty machining and grinding applications such as milling, drilling, turning, tapping, reaming and ID and OD grinding.

METALS
Can be used on a wide variety of materials such as carbon steels, high speed steels, cast steels, stainless steels, aluminum, copper and brass.

It should not be used on magnesium.

FEATURES & BENEFITS:

ENVIRONMENTALLY FRIENDLY
Product formula is derived from natural, renewable resources and does not contain mineral oil.

FOAM CONTROL
CIMFREE VG-901ZH has good foam control.

LUBRICITY
The product exhibits very good lubricity characteristics.

BIOLOGICAL CONTROL
CIMFREE VG-901ZH has very good biological protection.
RECOMMENDED STARTING DILUTIONS
CIMFREE VG-901ZH is to be mixed with water for use. Always add concentrate to water. Fluid may be more difficult to mix when water temperature is below 55 F (13 C). Add no other materials to the concentrate or mix unless approved by your CIMCOOL® District Manager.

<table>
<thead>
<tr>
<th>Application</th>
<th>Concentration</th>
<th>Dilution</th>
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</thead>
<tbody>
<tr>
<td>Grinding</td>
<td>5% - 10%</td>
<td>(1:20 to 1:10)</td>
</tr>
<tr>
<td>Machining</td>
<td>5% - 10%</td>
<td>(1:20 to 1:10)</td>
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</tbody>
</table>

CONCENTRATION
Total Alkalinity or Refractometer can be used.

The Refractometer Factor is 1.0. Multiply the scale reading obtained on your CIMCOOL® Refractometer by this factor to obtain the mix concentration in percent. Calibrate the refractometer so that it reads 0.0 with water before testing the sample mix. Remove gross contaminants from the sample mixes before testing. A refractometer is only recommended for use in checking the concentration on a fresh charge.

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES
- **Physical State:** Liquid
- **Solubility in water:** 100% miscible
- **Viscosity (SUS) @ 100°F:** 450
- **pH Concentrate:** 10.5
- **Total Chlorine/Chloride, wt%:** 0.0/<50ppm
- **Silicones:** No
- **Appearance and Odor:** Clear /Chemical
- **Weight, lb/gal, 60°F (15.6 °C):** 8.0
- **Flash Point /Sp.Gr./Boiling Point:** SEE MSDS
- **pH Mix 5%, Typical Operating:** 8.7
- **Total Sulfur, wt%:** 0.6

HANDLING and STORAGE
If frozen, thaw completely at room temperature prior to use. Inside storage is recommended.

The product should be used within six months of its manufacture date as indicated by the lot number.

SAFETY DATA SHEET
Available at [www.cimcool.com](http://www.cimcool.com)

For additional information refer to its OSHA MSDS, website or contact your local CIMCOOL TECHNICAL SPECIALIST OR DISTRICT MANAGER, or you may contact CIMCOOL® Technical Services at 1-513-458-8199.

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