VpCI®-416

PRODUCT DESCRIPTION

VpCI®-416 is a heavy-duty water-based alkaline cleaner and degreaser offering unique flash corrosion protection. VpCI®-416 can provide corrosion protection for up to 6 months during indoor storage. VpCI®-416 is formulated to meet the requirements for cleaning and corrosion protection of parts and stored equipment. VpCI®-416 penetrates to remove greases and oil deposits from machinery, engines, vehicles, construction equipment, and cranes in either industrial or marine applications.

VpCI®-416 can be metered into power washers, steam cleaners, dip tanks, and other cleaning equipment. Along with good detergent properties, VpCI®-416 is hard water stable.

While most cleaning compounds available on the market today are simple blends of surfactants and detergents which limit their cleaning effectiveness, VpCI®-416 offers improved cleaning plus multimetal corrosion protection action in one step, resulting in significant savings. VpCI®-416 can aid in the removal of grease, drawing and buffing compounds, machining fluids, and other hydrocarbon deposits.

FEATURES

• Heavy-duty cleaning and degreasing functionality
• Multimetal inhibition protects ferrous metals, yellow metals, and aluminum
• Provides exceptional resistance to pitting corrosion
• Non-toxic, non-corrosive, and does not contain nonylphenolethoxylates
• Mild foaming
• Hard water tolerant
• Recovers completely after freeze-thaw cycle in storage

EFFECTIVE USES

• Cleaning oil-contaminated machinery and parts
• Removing protective oils prior to painting, pickling, or machining
• Protecting parts during dry storage (when used in rinse tanks)
• Works well in multiple-stage parts washers

VpCI®-416 DILUTION RATIO CHART

<table>
<thead>
<tr>
<th>Dosage (%)</th>
<th>Volume VpCI®-416 (US) per gallon water</th>
<th>Volume VpCI®-416 (Metric) per liter water</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>6.4 ounces (~3/4 cup)</td>
<td>50ml</td>
</tr>
<tr>
<td>10</td>
<td>12.8 ounces (~1.5 cups)</td>
<td>100ml</td>
</tr>
<tr>
<td>20</td>
<td>25.6 ounces (~3 cups)</td>
<td>200ml</td>
</tr>
</tbody>
</table>

PROPERTIES

Appearance        Slightly hazy yellow liquid
Exposure Time     20 seconds to 5 minutes
pH                12-12.7 (Neat)
Density           8.6-8.8 lb/gal (1.03-1.05 kg/l)
Temperature Range 50°-300°F (10°-149°C)
Non-volatile Content 18-23%

PACKAGING

VpCI-416 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk.
FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT SAFETY DATA SHEET FOR MORE INFORMATION

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed. Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation’s obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer. Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THERewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec® Corporation. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC® CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Brix Reading Correlation (VpCI®-416)

Brix Reading = 0.25 x (Weight %) - 0.10
R² = 1.00

pH Calibration (VpCI®-416)

Please note the solutions used above were created using deionized water. Slight differences in water chemistry (dissolved solids, hardness, etc.) may lead to differences in readings. Please use these numbers as reference only. Contact Cortec® Technical Service with any questions.

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