



## SURFACE PREPARATION PRODUCTS

# VCI-416

### PRODUCT DESCRIPTION

VCI-416 is a heavy duty, water-based cleaner/degreaser offering unique corrosion protection. VCI-416 can provide protection for up to 12 months. VCI-416 is formulated to meet the requirements for cleaning and corrosion protection of parts and production equipment. VCI-416 penetrates to remove greases and oil deposits from machinery, engines, vehicles, construction equipment and cranes in either industrial or marine applications.

The compounds contained in VCI-416 function by altering hydrocarbons so that the deposits can be removed with water. VCI-416 can be metered into power washers, steam cleaners and other cleaning equipment. Along with good detergent properties, VCI-416 exhibits significant tolerance in the presence of calcium ions. As a result the performance of VCI-416 will not be compromised by water hardness.

While most cleaning compounds available on the market today are simple blends of surfactants and detergents which limit their effectiveness, VCI-416 offers improved cleaning plus multimetal corrosion protection action in one step, resulting in significant savings. VCI-416 has the unique ability to remove such deposits as heavy hydrocarbons, grease, drawing and buffing compounds, and machinery compounds. VCI-416 coats the metal surface with a tenacious film and mitigates the effect of oxidation upon the surface.

### CHIEF ADVANTAGES

- Heavy duty chemical cleaner and degreaser with unique cleaning action for removing hydrocarbon deposits.
- Multimetal corrosion inhibitors leave a temporary protective coating, affording protection for a few months at 2.5 – 5% minimum concentration.\*
- Provides exceptional resistance to pitting corrosion.
- Non-toxic, non-corrosive, does not contain nonylphenoethoxylates.
- Provides excellent cleaning action at low temperatures.
- Mild foaming.
- Effective at low concentrations.
- Exhibits good hard water tolerance.
- Formulation remains stable to freeze-thaw cycle.
- USDA approved.

\*The estimated time of protection may vary due to conditions.

### EFFECTIVE USES

- Machinery contaminated with oils.
- Sheet metal coated with temporary protective oils or waxes prior to painting, pickling or machining.
- Metal parts contaminated with stamping, drawing or buffing compounds.
- Use as an effective additive for rinse tanks to improve protection for dry storage applications (0.5 – 1.0% by weight).



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Environmentally Safe VCI/MCI® Technologies



## APPLICATION

VCI-416 can be applied with any convenient equipment including sprayers, dipping tanks, steam cleaners and power washers.

### Heavy-duty Cleaning

Use 1 part of VCI-416 to 5 – 10 parts water.

### Normal Cleaning (i.e. parts washing)

Use 1 part of VCI-416 to 19 – 40 parts water.

### Light Cleaning (i.e. rinsing)

Use 1 part VCI-416 to 40 – 150 parts water.

## TYPICAL PROPERTIES

Appearance	Clear yellow liquid
Exposure Time	20 Seconds to 5 minutes
pH:	12 – 13
Weight per gallon	8.7 – 8.8 lb./gal. (1.04 – 1.06 kg/l)
Working temperature range	50° to 300°F (10° – 149°C)

## PACKAGING

VCI-416 is available in 5 gallon (19 liter) and 55 gallon (208 liter) drums.

**TOLL FREE CUSTOMER SERVICE**  
**1-866-577-2326**

### FOR INDUSTRIAL USE ONLY

### KEEP OUT OF REACH OF CHILDREN

### KEEP CONTAINER TIGHTLY CLOSED

### NOT FOR INTERNAL CONSUMPTION

### CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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