

# CLEAN, PROTECT, AND PRESERVE

ENVIRONMENTALLY SAFE VpCI® SURFACE PREPARATION TECHNOLOGY



**CORTEC**  
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

## INTRODUCTION

### The Cortec® Mission

Cortec® Corporation is a company that has always believed it's not good enough to just meet customer needs. We must anticipate them. That is what it means to be an innovator. Currently, Cortec® supplies innovative corrosion protection solutions to the petrochemical, metalworking, telecommunications, electronics/electrical, utility, construction, military/government, marine, basic metals, automotive and equipment maintenance markets. We are expanding into new markets and creating new applications every day. For example, we have developed new technologies in the field of specialty chemical additives (i.e., paint, elastomers, plastics, etc.), new and exciting building blocks for water treatment and process industries emphasizing environmentally safe VpCI® molecules, and new products for the preservation or restoration of concrete structures using MCI®, Migrating Corrosion Inhibitor, technology.

### Leave your parts clean, dry and protected rather than exposed and vulnerable.

**ENVIRONMENTAL, HEALTH AND SAFETY** Compared with other products on the market, Cortec® can often reduce environmental, health and safety risks, while offering better cleaning protection.



**Above:** Aluminum trailer prior to treatment with VpCI®-427 and VpCI®-426



**Above:** Aluminum trailer after cleaning with VpCI®-427 and VpCI®-426.

### Introduction

Cortec's unique range of Surface Preparation products are designed with the customer and the environment in mind. By consistently researching and developing new technologies, you can rest assured that our products are among the easiest and safest to use in the industry.

By incorporating Cortec's proprietary Vapor phase Corrosion Inhibitor (VpCI®) technology into your surface preparation processes, you can reduce or eliminate the need for more time consuming and costly processes down line.

Cortec's full line of degreasers, depainters, rust and oxide removers can eliminate more costly and dimension changing processes like sand blasting, bead blasting, and acid dipping. By incorporating VpCI® products you can integrate this cleaning directly into existing manufacturing processes.

As the largest integrated manufacturer of Total Corrosion Control VpCI® Systems, Cortec® Corporation has the experience and technology you can rely on to solve your corrosion problems.

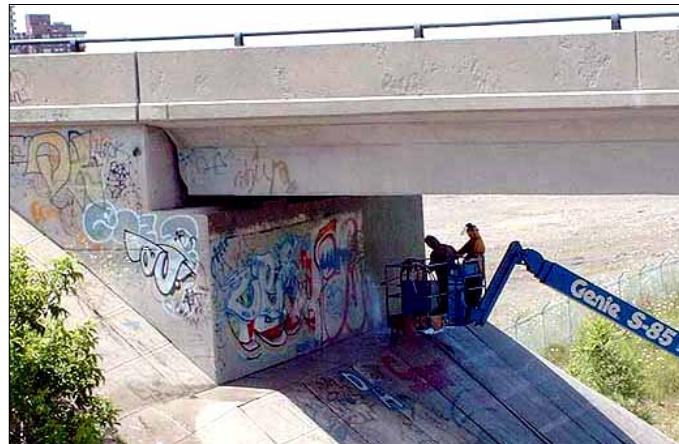


An area frequently overlooked related to corrosion control is that of surface preparation. By incorporating VpCI® technology into the cleaning, degreasing, and rust removal processes, corrosion protection is offered while the parts are at their most vulnerable state.

## EASY AS 123; THE 123 APPROACH

### 1. PAINT REMOVERS

- Quickly and safely remove many types of paints without damaging the metal surfaces underneath
- Quickly and easily remove graffiti from concrete and other surfaces
- Safe to use
- Eliminates blasting, refinishing and painting typically required



### 2. RUST/OXIDE REMOVERS



- Tough on rust, easy on users and the environment
- Many formulations 100% biodegradable
- Effectively remove Rust / Oxide from many types of metals without affecting the base metal
- Available in a variety of forms for a wide range of applications

### 3. SOY-BASED & WATER-BASED ALKALINE CLEANERS/DEGREASERS

#### Soy

- BioBased and completely biodegradable
- High performance for easy removal of oil and water-based fluids and coatings
- Includes proprietary VpCI® technology to prevent flash rust after cleaning

#### Water

- Available in a wide rage of forms:
  - High performance foaming
  - Non-Foaming
  - Powder & Liquid
- Cost effective and better performing
- Effective at lower temperatures
- Includes VpCI® technology to protect against flash rust
- Zero V.O.C., biodegradable



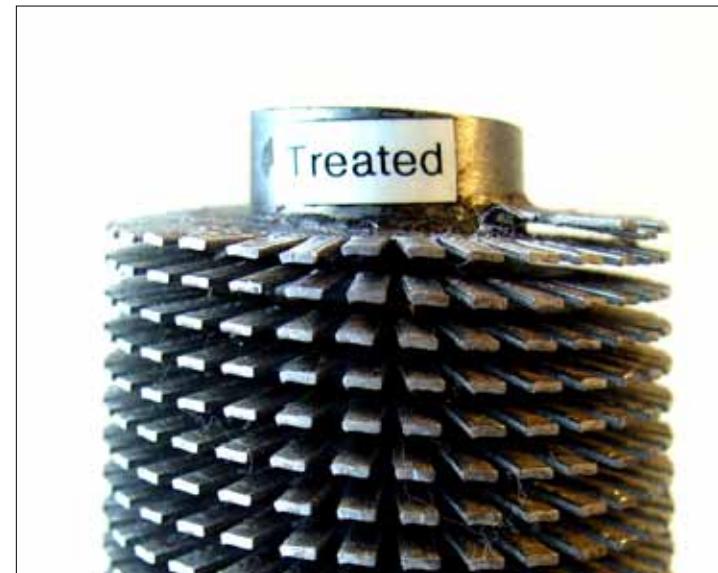
### PRESERVATIVES

- Cortec® offers hundreds of products to protect your equipment after it has been cleaned and neutralized
- Water-, Soy- and Oil- Based protectants safely and conveniently preserve metal parts and equipment for extended time periods

Contact Cortec® for specific product recommendations: [www.CortecVCI.com](http://www.CortecVCI.com)

## CASE HISTORIES/APPLICATIONS<<

### **CORROSION:**CORROSION AND RUST PLAGUE PARTS AND EQUIPMENT, CAUSING FAILURES, REJECTS AND COSTLY REWORK.



### **SOLUTIONS:**CORTEC'S® RANGE OF SP PRODUCTS CAN ELIMINATE BLASTING, SANDING AND OTHER LABOR-INTENSIVE, COSTLY PROCESSES.

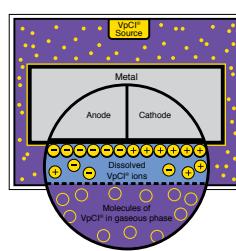


### **IONIC ACTION OF VpCI®**

CREATES A MOLECULAR, INHIBITING LAYER.

VpCI®:

- CONDITIONS ENCLOSED ATMOSPHERE WITH A PROTECTIVE VAPOR.
- VAPOR MIGRATES TO ALL RECESSED AREAS AND CAVITIES.
- VAPOR CONDENSES ON ALL METAL SURFACES.
- IONS DISSOLVE IN MOISTURE LAYER (WATER ELECTROLYTE).
- PROTECTIVE IONS ARE ATTRACTED TO METAL SURFACES.
- IONS FORM A THIN, MONOMOLECULAR PROTECTIVE LAYER AT THE METAL SURFACE.
- PROTECTIVE LAYER RE-HEALS AND SELF-REPLENISHES THROUGH FURTHER CONDENSATION OF THE VAPOR.



### **THE Eco FAMILY**

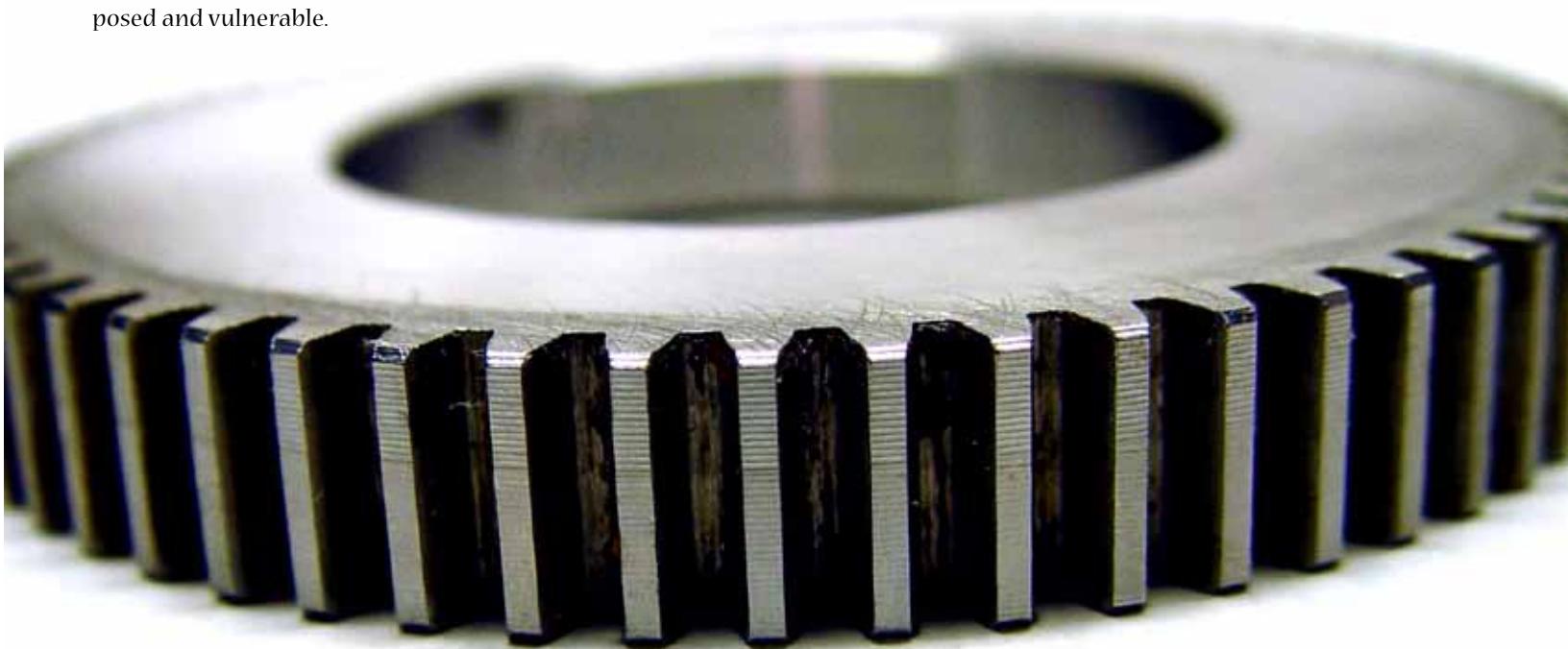


**Safe and Convenient:** Cortec's Surface Preparation products are tough on oils, grease, rust and other soils, yet mild on workers and the environment.



**Corrosion Protection:** By incorporating VpCI® technology into the surface preparation products themselves, parts and equipment are left clean, dry and **protected**, rather than exposed and vulnerable.

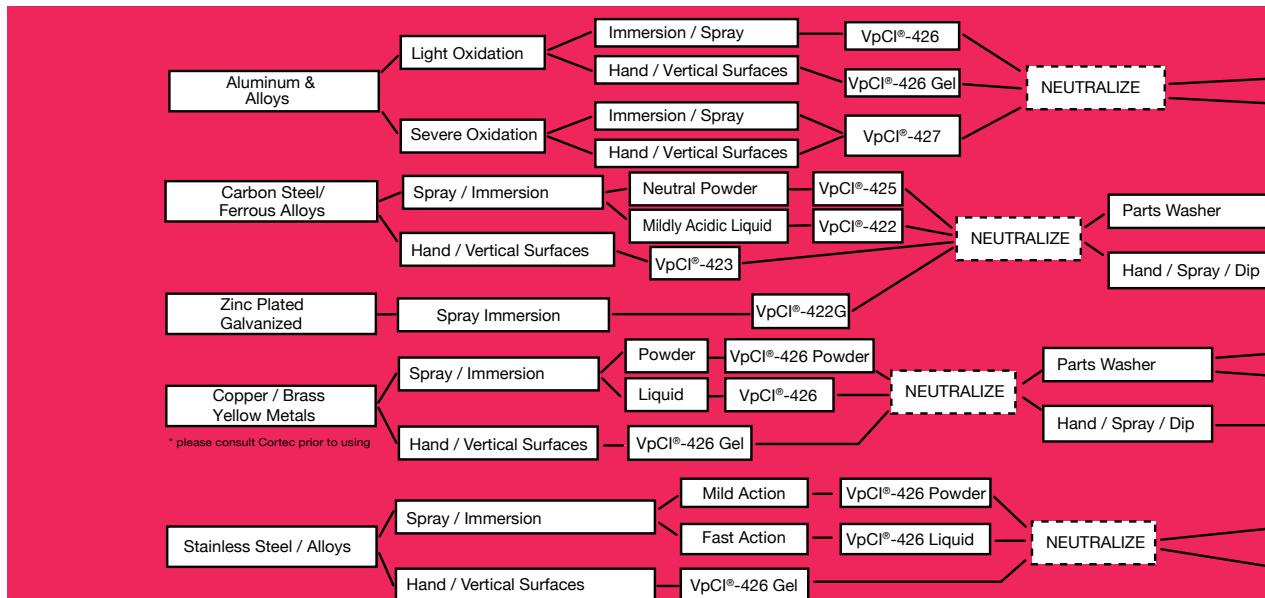
**Effective:** Cortec's Surface Preparation products are specifically formulated to exceed the expectations and demands of a wide range of users - from sensitive electronic components to heavy industrial equipment.



# PRODUCT SELECTION GUIDE

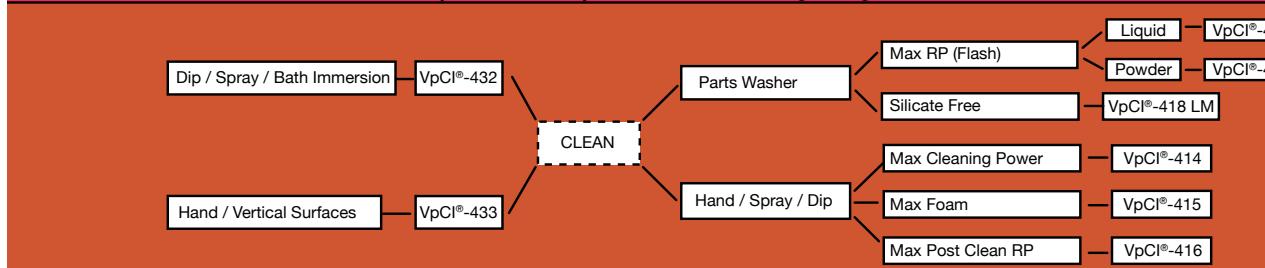
## REMOVAL OF:

### Oxide Rust

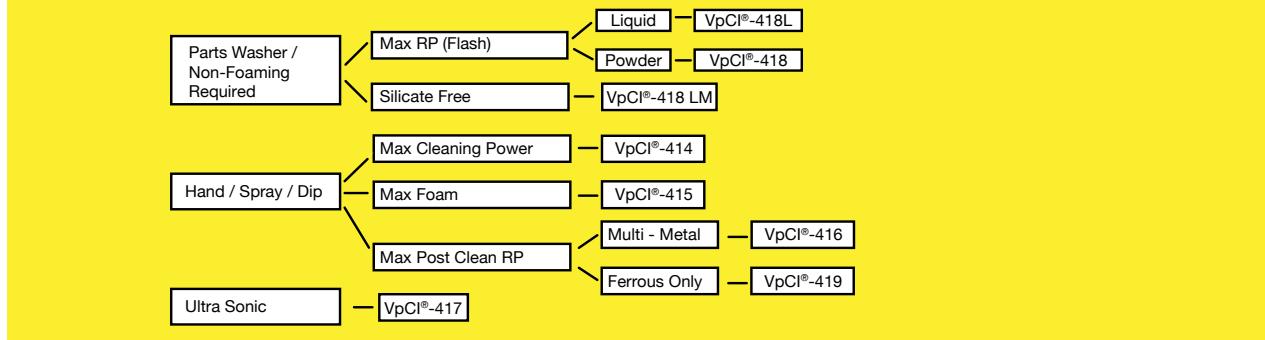


**Note:** In some cases it may be necessary to clear soils from parts prior to rust removal. Contact Cortec.

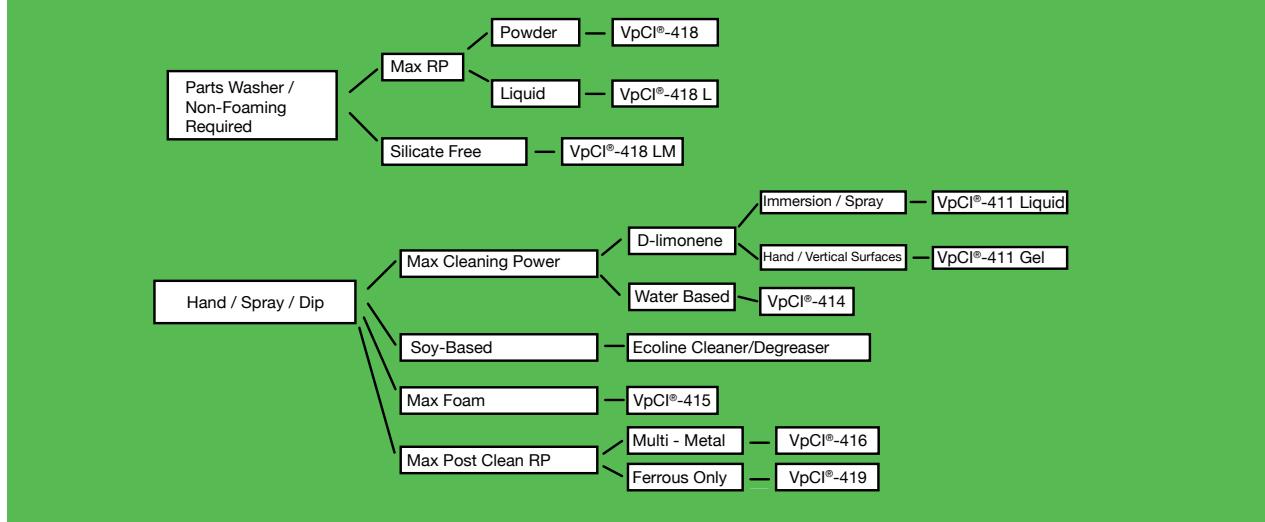
### Paint

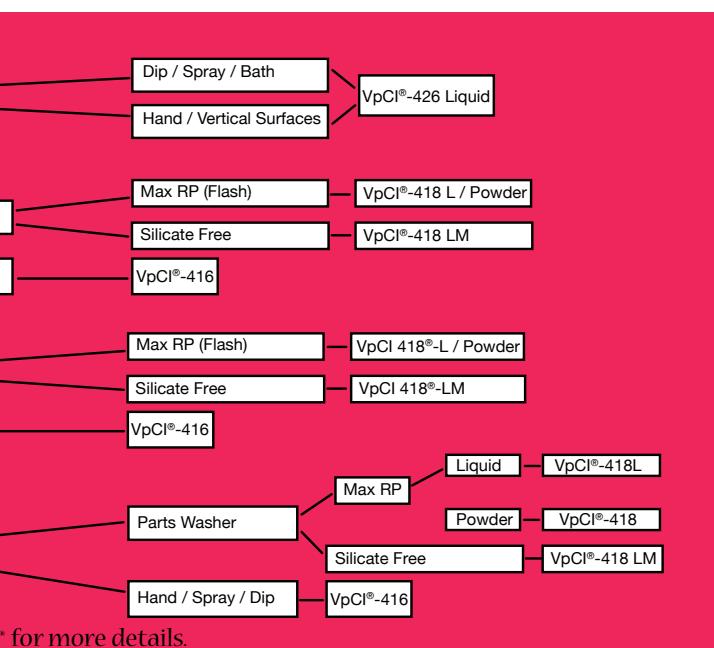


### Water Based Fluid



### Oil / Solvent Based





#### Explanation of Terminology & Abbreviations:

**RP:** Rust Preventative or Rust Prevention

**Flash:** Rust protection for the period immediately following cleaning (where 'flash rust' occurs). Products that prevent flash rust are designed to protect a part for up to one week, allowing enough time for another form of RP to be applied.

**Max:** Maximum

**Hand:** Applying products manually. This may involve spray bottles, brushes, or other methods.

**Immersion:** A process where parts are fully submerged in order to clean, or apply a rust preventative.

**Neutralize:** Process of creating a pH near 7 on the surface of the metal part. For acidic products, alkaline products are used to neutralize. For alkaline products, acidic products are used.

**Max Cleaning:** Products that have the greatest ability to remove the heaviest soils from the metal surface.

**Max Post Clean RP:** Products that have the greatest rust prevention ability after cleaning.

**Indoor:** Designates products offering protection when not exposed to running water, or other outdoor elements.

**Outdoor:** Designates products offering protection when exposed to outdoor conditions.

**Blend:** Combines cleaning power with post-clean rust prevention. Excellent default choice when both properties equally important.

**Max Foam:** Product that will cling to vertical and overhead surfaces for longer dwell time.

\* for more details.

418L  
418

## Extended Protection After Cleaning

After you've achieved a clean, dry part, you can achieve longer corrosion protection periods using the products below.

### INDOOR

- VpCI®-377  
Zero V.O.C., clean / dry protection up to 2 years
- VpCI®-316  
Zero V.O.C., clean / dry protection up to 2 years designed for yellow metals
- BioCorr™ Rust Preventative  
Soy-based RP, ready-to-use
- VpCI®-325  
Wet, self-healing, biobased for parts handled during assembly / transport

### OUTDOOR

- VpCI®-389  
Water based up to 3 years outdoor
- VpCI®-368  
Waxy film, cosmolene replacement, for even the most aggressive environment up to 5 years
- VpCI®-369  
Wet film for parts handled during storage, up to 24 months outdoor, up to 60 months sheltered.

**Note:** The above products are the most common temporary (easily removed) RP's available. Please contact Cortec® for permanent coatings recommendations.

# PRODUCT DESCRIPTION

## CLEANERS/DEGREASERS/NEUTRALIZERS

<b>VpCI®-405</b>	Phosphorous-free, foaming, multi-purpose cleaner that provides multi-metal flash corrosion protection after application.	<ul style="list-style-type: none"> <li>• <b>Cleans Multiple Metals</b></li> <li>• <b>Flash Protection</b></li> <li>• <b>Phosphorus Free</b></li> </ul>
<b>VpCI®-408</b>	Mildly alkaline (neutral) blend of surfactants and multi-metal inhibitors designed for pressure cleaning systems at slightly elevated temperatures.	<ul style="list-style-type: none"> <li>• <b>Cleans Multiple Metals</b></li> <li>• <b>Low Foaming</b></li> <li>• <b>Flash Protection</b></li> </ul>
<b>VpCI®-411</b>	D-Limonene based cleaner degreaser for heavy-duty cleaning operations. Provides multi-metal flash corrosion protection. Water-reducible.	<ul style="list-style-type: none"> <li>• <b>Cleans Multiple Metals</b></li> <li>• <b>Flash Protection</b></li> <li>• <b>D-Limonene Based</b></li> <li>• <b>Excellent Degreaser</b></li> </ul>
<b>VpCI®-411 Gel</b>	Gel version of VpCI®-411 specifically for applications requiring longer dwell times and application to vertical surfaces.	<ul style="list-style-type: none"> <li>• <b>Ready to use</b></li> <li>• <b>Gel Version for Vertical Surfaces</b></li> <li>• <b>Multi-Metal</b></li> <li>• <b>D-Limonene Based</b></li> </ul>
<b>VpCI®-414</b>	Concentrated liquid multi-purpose, foaming alkaline, cleaner designed specifically to remove thick, waxy-type water-based coatings such as VpCI®-389 and some solvent-based coatings. Provides light multi-metal corrosion protection. Designed specifically for cleaning ability.	<ul style="list-style-type: none"> <li>• <b>Cleans Multiple Metals</b></li> <li>• <b>Flash Protection</b></li> <li>• <b>Emulsifying Degreaser</b></li> <li>• <b>Best Water - based for rust prevention</b></li> </ul>
<b>VpCI®-415</b>	Concentrated liquid multi-purpose, foaming alkaline cleaner blending cleaning capability of VpCI®-414 with flash corrosion protection of VpCI®-416. Most often used at slightly higher concentrations than either VpCI®-414 or VpCI®-416.	<ul style="list-style-type: none"> <li>• <b>Flash Protection</b></li> <li>• <b>Cleans Multiple Metals</b></li> <li>• <b>Protects up to 6 months</b></li> <li>• <b>Excellent blend of cleaning and rust prevention</b></li> </ul>
<b>VpCI®-416</b>	Concentrated liquid multi-purpose, foaming alkaline cleaner designed specifically for longest possible multi-metal corrosion protection while remaining highly effective at cleaning ability.	<ul style="list-style-type: none"> <li>• <b>Cleans Multiple Metals</b></li> <li>• <b>Protects up to 60 days</b></li> <li>• <b>Flash Protection</b></li> <li>• <b>Best Water - based for rust prevention</b></li> </ul>
<b>VpCI®-417</b>	Concentrated powder multi-purpose, low-foaming alkaline cleaner designed specifically for applications where surfactants are required for cleaning ability, but less foam is desired. Provides multi-metal flash corrosion protection.	<ul style="list-style-type: none"> <li>• <b>Cleans Multiple Metals</b></li> <li>• <b>Flash Protection</b></li> <li>• <b>Low Foaming</b></li> <li>• <b>Ultrasonic Cleaner</b></li> </ul>
<b>VpCI®-418</b>	Concentrated powder multi-purpose, non-foaming alkaline cleaner/degreaser designed specifically for parts washers and applications where foaming is detrimental. In most applications will reduce or eliminate the need for defoamers. Available in bulk or as premeasured VpCI®-418 Saf-T Charges (patented). Provides multi-metal flash corrosion protection to cleaned parts and parts washers.	<ul style="list-style-type: none"> <li>• <b>Cleans Multiple Metals</b></li> <li>• <b>Flash Protection</b></li> <li>• <b>Non- Foaming</b></li> <li>• <b>Liquid or Powder Available</b></li> </ul>
<b>VpCI®-418L</b>	Concentrated liquid version of VpCI®-418.	
<b>VpCI®-418LM</b>	Concentrated liquid, silicate-free version of VpCI®-418.	<ul style="list-style-type: none"> <li>• <b>Silicate Free (VpCI®-418LM)</b></li> <li>• <b>Sodium Free (VpCI®-418LM)</b></li> </ul>
<b>VpCI®-419</b>	Concentrated liquid heavy-duty cleaner/degreaser designed for removal of heavy hydrocarbons, greases, oils and similar materials common to oil/gas industries and heavy industrial applications. Designed for ferrous-only flash corrosion protection and to chemically alter soil deposits allowing them to be removed with water.	<ul style="list-style-type: none"> <li>• <b>Protects Ferrous, Aluminum and Galvanized</b></li> <li>• <b>Flash Protection</b></li> <li>• <b>Excellent Degreaser</b></li> </ul>

# PRODUCT DESCRIPTION

**EcoLine®  
Cleaner/  
Degreaser** Biobased (soya) and biodegradable liquid cleaner degreaser designed for removal of solvent and/or oily films and coatings.

- **BioBased (Soya)**
- **Biodegradable**
- **Multi-Metal**
- **Flash Protection**

## RUST OXIDE REMOVERS

**VpCI®-422** Biobased (citrus) and biodegradable liquid rust remover ideally suited for removal of red and white rust (ferrous and alloy). Designed to be more forgiving to different application methods.

- **BioBased (citrus)**
- **Ferrous**
- **Alloys Oxide Remover**
- **Will not attack base metal**

**VpCI®-422G** Specific Version VpCI®-422 designed to remove red rust (iron oxide) from exposed edges of Zn-plated/Galvanized metal, while not affecting the Zn-plating or galvanized layer. Non-acidic, near neutral pH (5.5-6.5), excellent chelating ability.

- **Near neutral pH**
- **Non-Acidic, Chelating Action**
- **Rust removal from exposed (steel) edges of Zn-plated and Galvanized**

**VpCI®-423  
Gel** Gel version of VpCI®-422 designed for vertical surfaces or longer dwell times when applied by brush or spray (non-dip tank).

- **BioBased (citrus)**
- **Ferrous**
- **Alloys Oxide Remover**
- **Will not attack base metal**

**VpCI®-425** Powder specifically designed to remove light oxides and staining from copper, steel and aluminum. Mix with water prior to application.

- **Steel**
- **Aluminum**
- **Copper**
- **Oxide Remover**

**VpCI®-426  
Liquid** High performance, fast acting liquid rust remover designed specifically for stainless steel, copper and aluminum. May work too quickly for applications on carbon steel.

• <b>Steel</b>	• <b>Stainless</b>
• <b>Aluminum</b>	• <b>Follow with neutralizer</b>
• <b>Copper</b>	

**VpCI®-426  
Gel** Gel version of VpCI®-426 Liquid designed for similar applications on vertical surfaces or longer dwell times when applied by hand.

• <b>Steel</b>	• <b>Concentration (100%)</b>
• <b>Aluminum</b>	• <b>Follow with neutralizer</b>
• <b>Copper</b>	

**VpCI®-426  
Powder** Powder version of VpCI®-426 designed to be mixed with water prior to application. Also available as VpCI®-426 Saf-T-Charge minimizing chemical handling.

- **Concentration (7% typical)**
- **Stainless Steel**
- **Aluminum**
- **Copper: Excellent for un-plated metals**
- **Follow with neutralizer**

**VpCI®-427** Liquid, aluminum oxide remover and brightener that chemically dissolves and removes AlO<sub>2</sub>. Designed specifically for when a "new" surface is desired. Most often for subsequent operations or aesthetic purposes. Neutralize a surface with VpCI®-426 after use.

- **Aluminum oxide remover**
- **Neutralize with VpCI®-426**

## PAINT STRIPPERS/GRAFFITI

**VpCI®-432** Heavy-duty liquid paint stripper designed specifically for alkyds, acrylics and urethane coatings. Effective on variety of substrates such as wood, concrete and metal.

- **Paint / Graffiti Removal**
- **Variety of Substrates**

**VpCI®-433** Gel version of VpCI®-432 ideal for vertical surfaces or when longer dwell times are required in non-dip applications.

- **Gel version of VpCI®-432 for vertical surfaces**

## RUST CONVERTERS/PRIMER

**VpCI®  
CorrVerter®** Thick, water-based liquid primer/converter that chemically reacts with iron oxide, then subsequently serves as a high performance self-priming coating. Can be topcoated for long-term protection. Designed specifically for applications where chemical rust removal or blasting is undesirable or impossible.

- **Water Based Primer for Ferrous and Alloys**
- **Neutral Chemical Chelator**
- **Can be top coated**

Products	Foaming	Splitting	Emulsifying	Applications	Temperature Range	Availability	Base/carrier
<b>VpCI®-405</b>	Moderate		X	power washer, immersion, or manual cleaning	40-140 F ( 5-60 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	Water
<b>VpCI®-408</b>	Low	X		high pressure automated wash system, recirculating systems	65-160 F ( 18-71 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	Water
<b>VpCI®-411</b>	Moderate		X	power washer, immersion, or manual cleaning	40-100 F ( 5-40 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk, Aerosol	D-Limonene
<b>VpCI®-411 Gel</b>	NA		X	power washer, immersion, or manual cleaning	40-100 F ( 5-40 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	D-Limonene
<b>VpCI®-414</b>	High		X	power washer, immersion, or manual cleaning	40-140 F ( 5-60 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk, Ecoair	Water
<b>VpCI®-415</b>	High		X	power washer, immersion, or manual cleaning	40-140 F ( 5-60 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk, Aerosol	Water
<b>VpCI®-416</b>	High		X	power washer, immersion, or manual cleaning	40-140 F ( 5-60 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk, 16 Oz	Water
<b>VpCI®-417</b>	Low	X		ultrasonic, recirculating systems, high pressure automated wash systems	65-160 F ( 18-71 C )	100 Pounds (45 Kg) or Drum	Water
<b>VpCI®-418</b>	Non-Foaming	X		recirculating systems, high pressure automated wash systems	65-160 F ( 18-71 C )	100 Pounds (45 Kg) Drum	Water
<b>VpCI®-418L</b>	Non-Foaming	X		recirculating systems, high pressure automated wash systems	65-160 F ( 18-71 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	Water
<b>VpCI®-418 LM</b>	Non-Foaming	X		recirculating systems, high pressure automated wash systems	65-160 F ( 18-71 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	Water
<b>VpCI®-419</b>	Moderate			power washer, immersion, or manual cleaning	40-140 F ( 5-60 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	Water
<b>Ecoline® Cleaner Degreaser</b>	Moderate			power washer, immersion, or manual cleaning	40-100 F ( 5-40 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk, 16 Oz	Soya Methyl ester
<b>VpCI®-422</b>	Low	NA	NA	power washer, immersion, or hand spray	60-120 F ( 15-49 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk, Ecoair	organic acid
<b>VpCI®-422G</b>	Low	NA	NA	power washer, immersion, or hand spray	60-120 F ( 15-49 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	Water
<b>VpCI®-423</b>	Low	NA	NA	brush, spray, or manual application	60-120 F ( 15-49 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	organic acid
<b>VpCI®-425</b>	Low	NA	NA	immersion, ultrasonic baths	140-200 F (60-90 C )	100 Pounds (45 Kg)	inorganic acid
<b>VpCI®-426</b>	Low	NA	NA	power washer, immersion, or hand spray	60-120 F ( 15-49 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	inorganic acid
<b>VpCI®-426 Gel</b>	NA	NA	NA	brush, spray, or manual application	60-120 F ( 15-49 C )	5 Gal (19 liter), 55 Gal (208 liter), Bulk	inorganic acid
<b>VpCI®-426 Powder</b>	Low	NA	NA	immersion, ultrasonic baths	65-160 F (18-71 C )	100 Pounds (45 Kg)	inorganic acid
<b>VpCI®-427</b>	Low	NA	NA	power washer, immersion, or hand spray	60-120 F (15-49C)	5 Gal (19 liter), 55 Gal (208 liter), Bulk,	caustic
<b>VpCI®-432</b>	Low	NA	NA	immersion, spray, or manual application	65-160 F (18-71C)	5 Gal (19 liter), 55 Gal (208 liter), Bulk, 16 Oz	solvent
<b>VpCI®-433</b>	NA	Low	NA	brush, spray, or manual application	ambient to remain gel	5 Gal (19 liter), 55 Gal (208 liter), Bulk	solvent
<b>VpCI® CorrVerter®</b>	NA	NA	NA	brush, spray, roller, or immersion	60-120 F (15-49C)	5 Gal (19 liter), 55 Gal (208 liter), Bulk, 16 Oz	water-base acrylic

Form	Neat pH	Dilute pH	Biodegradable	Length of Corrosion Protection	Metals Protected	Dilution Range (%)
Liquid Concentrate	12	10 - 12	YES	Up to 30 Days	Multi-Metal	10 - 50
Liquid Concentrate	N.E.	8.8 - 9.5	YES	Up to 1 Week	Multi-Metal	2 - 15k
Liquid Concentrate	9.0 - 10.5	N.E.	YES	Up to 1 Week	Multi-Metal	25 - 100
Gel Ready-To-Use	9.0 - 10.5	N.A.	YES	Up to 1 Week	Multi-Metal	100
Liquid Concentrate	9.0 - 10.5	N.E.	YES	Up to 1 Week	Multi-Metal	5- 66
Liquid Concentrate	10 - 12	N.E.	YES	Up to 30 Days	Multi-Metal	5- 50
Liquid Concentrate	11.5 - 12.5	N.E.	YES	Up to 6 Months	Multi-Metal	5- 50
Powder	N.A.	11.8 12.8	N.E.	Up to 3 Months	Multi-Metal	2- 10
Powder	N.A.	11.8 12.8	N.E.	Up to 3 Months	Multi-Metal	2- 10
Liquid Concentrate	N.E.	10 - 12	N.E.	Up to 3 Months	Multi-Metal	3- 25
Liquid Concentrate	N.E.	10.1 10.6	YES	Up to 3 Months	Multi-Metal	3- 25
Liquid Concentrate	12.5 - 13	10 - 12	YES	Up to 6 Months	Ferrous, Aluminum, Galvanized	5 - 66
Liquid Concentrate	N.E.	8 - 9	YES	Up to 1 Week	Multi-Metal	25 - 100
Liquid	1.7 - 2.5	N.E.	YES	Flash	Ferrous	100
Liquid	5.5-6.5	N.A.	YES	Flash	Multi-Metal, ZnPlated/Galvanized Specifically	100
Gel	N.E.	N.E.	YES	Flash	Ferrous	100
Powder	N.A.	7-8	YES	Flash	Multi-Metal	10-14 by weight
Liquid	1.5-2.5	N.E.	YES	Flash	Multi-Metal	25-100
Gel	N.E.	N.E.	YES	Flash	Multi-Metal	100
Powder	N.A.	2.5-3.5	YES	Flash	Multi-Metal	1-7 by weight
Liquid Concentrate	>11	2.5-3.5	YES	NA	Aluminium & Alloys	10 - 100
Liquid	N.E.	N.E.	N.E.	Flash	Multi-Metal	100
Gel	N.E.	N.E.	N.E.	Flash	Multi-Metal	100
Viscous Liquid	N.E.	N.E.	N.E.	Up to 5 Years	Ferrous	100



## 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 product 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 THERE WITH.

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.

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