



CORTEC
CORPORATION

Environmentally Safe VpCI™/MCI® Technologies

MRO INDUSTRIAL CORROSION CONTROL PRODUCTS

*Electrical & Electronics
Maintenance & Repair*

Eco Products

VpCI™ Additives

Concrete Protection





MRO & INDUSTRIAL

Corrosion is an incredibly destructive force facing everyone who works with metal. In the United States alone corrosion costs industry, and ultimately the consumer, over 350 billion dollars. But that's only part of the story. Many corrosion protection methods employed are less than effective, and worse, are inherently damaging to the earth's environment.



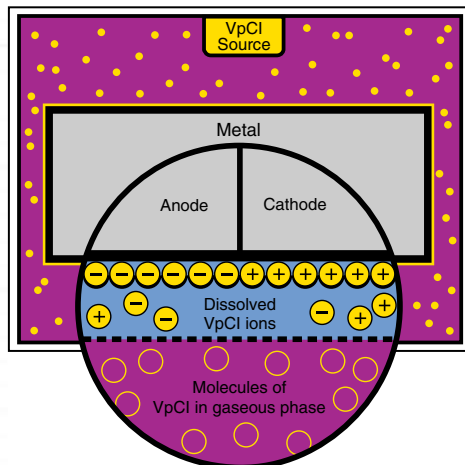
In 1977, as a fledgling company working out of a garage in St. Paul, Minnesota, we had a vision to effectively combat the devastating effects of corrosion, while at the same time creating environmentally friendly alternatives to existing methods of corrosion protection. Through commitment, hard work, and extensive research and development we pioneered the application and distribution of VpCI™ (Vapor phase Corrosion Inhibiting) technologies. We're producing a full line of multifunctional products that promise unparalleled benefits to you, our customers.

Through the years, Cortec® Corporation has grown to become the world's leader in corrosion protection technology. But regardless of how large we become, the vision and commitment we began with in that little garage will always remain: to provide corrosion protection to help you increase profits, improve product quality and reduce waste and pollution.

The way we look at it, being a world-leader in VpCI™ Technology has its responsibilities.

VpCI™ Technology

Ionic Action of VpCI™ Creates a Molecular, Inhibiting Layer.



VpCI™:

- Vaporizes.
- 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.

Visit us at www.cortecvci.com

For technical information call **(800) 4-CORTEC**

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**CORTEC®
PRODUCTS**

More Effective Corrosion Inhibitors

Health, safety and pollution control.

Cortec's formulations, using the newest chemical technology available, help alleviate your concerns in the areas of health, safety, flammability and pollution control.

Multimetal protection.

A full range of corrosion inhibitors is available to protect ferrous and non-ferrous metals, including formulations that protect combinations of metals.

Short- and long-term protection.

There's a Cortec® solution whether you need temporary protection during in-plant processing, medium-term protection for shipment and storage or extended protection for a variety of environmental conditions. Now you can effectively protect your metals and products against humidity and aggressive atmospheres as well as against corrosive industrial, marine and tropical atmospheres.

Protected parts are immediately ready for use.

The protective invisible layer deposited by Cortec® Vapor phase Corrosion Inhibitors (VpCIs) needs no removal. No degreasing, scraping, cleaning or further preparation is necessary before processing, installation or use. Your VpCI™ protected components, parts and finished assemblies are always ready for immediate use.

Does not alter most material properties.

In the majority of cases, the invisible protective ionic layer of Cortec® VpCIs does not alter important surface properties. This is true even for precision electronic devices where conductivity, permissibility and dimensional tolerances are crucial.

For tiny electronic devices to tanker holds.

Cortec® VpCIs protect any size product — from printed circuit board components in processing, or parts stored in a small box, to large transport container shipments.

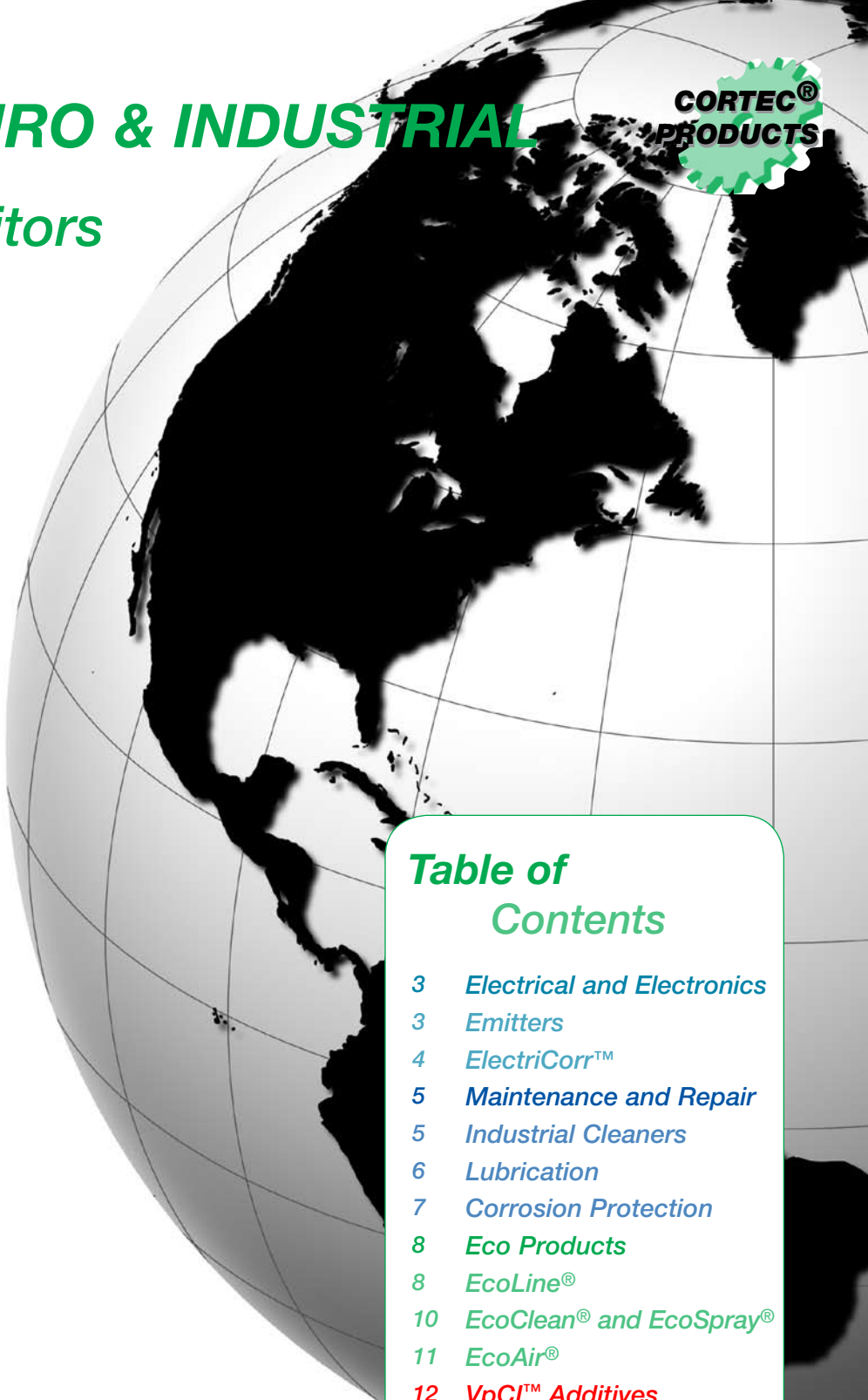


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Cortec® Corporation of St. Paul, MN is the world's largest manufacturer of VpCI™ (Vapor phase Corrosion Inhibitor™) chemical products. In addition to excellent customer service and satisfaction, Cortec® has ISO 9001 and 14001 certifications- standards which reflect a dedication to quality and environmentally safe systems.

Visit us at www.cortecvci.com

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Emitter System Features

- Multi-metal protection
- Adhesive backing allows fast, no-tool installation
- Does not require removal prior to start-up
- Protects during equipment operation
- No surface preparation required
- Multi-functional protection: VpCI™, static dissipating and desiccant ability
- Compact space-saving design suitable for OEM applications
- Complies with Southern California Clean Air Act and other local environmental requirements
- Provides continuous long-term corrosion protection
- Economical
- Effective in polluted and humid atmospheres
- Non-toxic and safe to handle
- Free of nitrites, silicones and phosphates
- The molecular VpCI™ layer does not interfere with electrical, optical or mechanical surface properties



VpCI™ Foam Emitter 101

- Patented VpCI™ impregnated foam
- Continuous corrosion protection
- Non-toxic
- NSN# 6850-01-338-1392
- FDA approved
- USDA approved



VpCI™ Emitter Cup 105/111

- One way Tyveck* release membrane
- Nitrite, silicone and phosphate free
- Economical, long lasting protection
- Non-toxic
- Easy installation
- No residue
- FDA approved
- 105: NSN# 6850-01-406-2060
- 111: NSN# 6850-01-408-9025



* Tyveck® is a registered trademark of DuPont Worldwide

| Part # | Size | Type |
|--------|--|---------|
| 0007 | 1 ft ³ . (0.3 m ³ .) | Emitter |

| Part # | Size | Type |
|--------|--|---------|
| 0092 | 5 ft ³ . (1.52 m ³ .) | Emitter |
| 0386 | 11 ft ³ . (3.35 m ³ .) | Emitter |



Corrosorber® Cup

- Absorbs corrosive gases
- Irreversible reaction
- Non-toxic
- Superior performance against hydrogen sulfide
- Changes color as it is used up
- Quick installation

| Part # | Size | Type |
|--------|--|---------|
| 1333 | 11 ft ³ . (3.35 m ³ .) | Emitter |



VpCI-125™ Anti-Stat Bag

- VpCI™ impregnated film
- Excellent corrosion protection
- Superior dissipative qualities
- MIL SPEC# B-22020C II
- MIL SPEC# B-81705C II
- MIL SPEC# PRF-817050
- FDA approved
- USDA approved

| Part # | Size | Type |
|--------|------------------------------|------|
| 0884 | 4" x 6" (0.1 m. x 0.15 m.) | Bag |
| 1971 | 6" x 8" (0.15 m. x 0.2 m.) | Bag |
| 2213 | 8" x 10" (0.2 m. x 0.25 m.) | Bag |
| 0887 | 10" x 12" (0.25 m. x 0.3 m.) | Bag |

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ElectriCorr®



ElectriCorr® VpCI-238™ Cleaner/Protectant

- Instant corrosion/oxidation protection
- No CFC's
- Displaces moisture
- Anti-static
- 2 year indoor protection
- NSN# 6850-01-413-9361

| Part # | Size | Type |
|--------|--------------------|---------|
| 0303 | 9.45 oz. (0.28 l.) | Aerosol |
| 0304 | 5 gal. (18.93 l.) | Pail |
| 0305 | 55 gal. (208.2 l.) | Drum |



ElectriCorr® VpCI-248™ Non-Flammable Cleaner/Protectant

- Non-flammable
- Does not alter electrical resistance
- Protects electronic and electrical contacts
- Fast drying
- Non-conductive
- Excellent cleaning action

| Part # | Size | Type |
|--------|--------------------|---------|
| 2516 | 9.45 oz. (0.28 l.) | Aerosol |

Cortec® VpCI™ Products

General Applications:

- Electrical panels
- Electronic enclosures
- Tool and spare part boxes
- Electromechanical controls
- Switch gear and relay cabinets
- Marine, aerospace and military instruments
- Light fixtures, monitoring and alarm systems
- Junction fuse boxes and wire ways, bus bars
- Computers and telecommunications equipment
- Control panels for manufacturing equipment
- Scientific instruments
- Many more!



ElectriCorr® VpCI-239™ Extreme Environment/Outdoor Cleaner/Protector

- Excellent outdoor corrosion protection
- Designed for aggressive environments
- Non-conductive
- Anti-static
- Perfect for exposed contacts and relays
- UV Indicator

| Part # | Size | Type |
|--------|--------------------|---------|
| 1800 | 9.45 oz. (0.28 l.) | Aerosol |
| 0996 | 5 gal. (18.93 l.) | Pail |
| 3510 | 55 gal. (208.2 l.) | Drum |



ElectriCorr® VpCI-286™ Conformal Coating

- Conforms to surface
- Continuous corrosion protection
- Fast drying
- No VOC's
- UV indicator
- Vibration resistant
- Extends board life

| Part # | Size | Type |
|--------|--------------------|---------|
| 3076 | 12 oz. (0.35 l.) | Aerosol |
| 3065 | 5 gal. (18.93 l.) | Pail |
| 3066 | 55 gal. (208.2 l.) | Drum |



EnviroSafe Contact Cleaner

- Removes oil, grease and dirt
- No residue
- Non-flammable
- Professional use only

Typical Applications:

- Alternative to 141b
- Electrical equipment
- Relays and switches
- Controls

| Part # | Size | Type |
|--------|----------------|----------------|
| 11122 | 15 oz (425 g.) | Aerosol Custom |



Universal Contact Cleaner

- Fast drying, general purpose cleaner
- Plastic safe
- Deep penetration
- Not for use on energized equipment
- No CFC, HCFC or ODP

Typical Applications:

- Electrical equipment
- Motor parts and brushes
- Relays and switches
- Machinery controls

| Part # | Size | Type |
|--------|--------------|-----------------------|
| 11118 | 9 oz (255 g) | Aerosol Stock Product |

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INDUSTRIAL CLEANERS



CorrClean VpCI-415™ Water-based Foaming Cleaner

- Biodegradable
- Water-based
- Superior foaming action
- Rinses clean
- Safe on all surfaces
- Prevents Corrosion
- Conforms to MIL SPEC# MILPRF-87937C

| Part # | Size | Type |
|--------|--------------------|---------|
| 2569 | 18 oz. (.53 l.) | Aerosol |
| 3501 | 5 gal. (18.93 l.) | Pail |
| 3502 | 55 gal. (208.2 l.) | Drum |

Cortec® VpCI™ Industrial Cleaners Features

- VpCI™ enhanced
- Non-corrosive
- High performance based degreasers
- Non-chlorinated
- Safe handling
- Non-conductive
- Biodegradable alternatives
- No TCE
- No HCFC's
- Eliminates disposal problems



CorWipe® 300 & 500

- Cleaner/Degreaser
- Anti-Stat
- Removes surface rust
- Corrosion inhibitor for multimetals
- Disposable

| Part # | Size | Type |
|--------|------------------|----------|
| 2435 | 25 Ct. Container | 500 Wipe |
| 0941 | 72 Ct. Container | 300 Wipe |



CorrClean VpCI-411™ Citrus Cleaner

- Industrial strength citrus based degreaser
- Non-conductive
- Cuts grease and oil
- Ideal for adhesives and tar
- No chlorinated solvents
- Controlled evaporation

| Part # | Size | Type |
|--------|--------------------|---------|
| 2568 | 11 oz. (0.32 l.) | Aerosol |
| 3506 | 5 gal. (18.93 l.) | Liquid |
| 3507 | 55 gal. (208.2 l.) | Liquid |



CorrClean Brake and Parts Cleaner

- Non-chlorinated
- No residue
- Non-conductive
- Aggressive degreasing properties
- Fast evaporation

| Part # | Size | Type |
|--------|------------------|---------|
| 4051 | 15 oz. (0.44 l.) | Aerosol |
| 2602 | 1 gal. (3.79 l.) | Liquid |



Safe-T-Charge Pressure/Ultrasonic Parts Washer Additive

- Aggressive water based cleaner
- Safe handling in water soluble bags
- No measuring
- Low foaming
- Excellent flash corrosion resistance
- Biodegradable

| Part # | Size | Type |
|--------|-----------------------------|----------|
| 2316 | 417 Ultrasonic Parts Washer | Low Foam |
| 2317 | 418 Ultrasonic Parts Washer | No Foam |

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LUBRICANTS

MAINTENANCE & REPAIR



General Applications

- Conveyors
- Chains
- Cables
- Hinges
- Rollers
- Shafts
- Rails
- Pins
- Bearings
- Machinery
- Drives
- Motors
- Doors



CorrLube™ VpCI™ Penetrant

- Low surface tension
- Attacks rust
- Superior penetrating properties
- Lubricates and protects
- Excellent foaming action

| Part # | Size | Type |
|--------|------------------|---------|
| 2571 | 11 oz. (0.32 l.) | Aerosol |



CorrLube™ VpCI-325™ Industrial Lubricant

- Displaces moisture
- Protects against corrosion
- Ideal routine maintenance lubricant
- Non-drying
- Indoor/outdoor surface lube

| Part # | Size | Type |
|--------|--------------------|---------|
| 1974 | 8 oz (0.23 l.) | Aerosol |
| 0430 | 5 gal. (18.93 l.) | Liquid |
| 0431 | 55 gal. (208.2 l.) | Liquid |



CorrLube™ VpCI™ Lithium EP Grease

- NLGI grade: 2
- Good adhesion properties
- Resists water washout
- Excellent corrosion protection
- Ideal for all bearings

| Part # | Size | Type |
|--------|------------------------|--------|
| 0220 | 14 oz. (0.41 l.) | Grease |
| 0336 | 5 gal (18.93 l.) | Grease |
| 2332 | 16 gal (60.57 l.) | Grease |
| 0337 | 55 gal Drum (208.2 l.) | Grease |



CorrLube™ VpCI™ EP Grease with PTFE

- NLGI grade: 2
- PTFE Additives
- Superior lubrication
- Excellent load bearing capabilities
- Optimum corrosion protection

| Part # | Size | Type |
|--------|------------------------|--------|
| 4277 | 14 oz. (0.41 l.) | Grease |
| 6414 | 5 gal (18.93 l.) | Grease |
| 6434 | 16 gal (60.57 l.) | Grease |
| 2581 | 55 gal Drum (208.2 l.) | Grease |



CorrLube™ VpCI™ Motor Oil

- High performance
- API certified
- Excellent for gas or diesel engines
- Recommended for lay-up or for engines that are infrequently used or stored during the off-season
- Protects against internal corrosion

| Part # | Size | Type |
|--------|------------------------|--------|
| 3111 | 32 oz./quart (0.95 l.) | 10W-30 |
| 3112 | 32 oz./quart (0.95 l.) | 15W-45 |
| 6170 | 5 gal. (18.93 l.) | 10W-30 |
| 1986 | 5 gal. (18.93 l.) | 15W-45 |
| 2336 | 55 gal. (208.2 l.) | 10W-30 |
| 2333 | 55 gal. (208.2 l.) | 15W-45 |

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Cortec® VpCI™ Corrosion Inhibitors Features

- Multi-year protection
- Multi-metal protection
- Water based alternatives
- Dry film
- Wet film
- UV resistant
- Self-healing
- Constant VpCI™ protection
- VpCI™ does not require removal

General Applications

- Outdoor storage
- Aircraft
- Elevators
- Storage tanks
- Vehicles
- Outdoor connections
- Pumps
- Cargo holds
- Marine equipment

CORROSION INHIBITORS



CorShield® VpCI-368™ Extreme Outdoor Corrosion Inhibitor

- Dry, hard, waxy film
- Excellent for corrosive environments
- Multi-year outdoor protection
- Contaminant resistant
- UV resistant
- MIL C-16173E
- MIL C-2218A
- MIL C-83933A
- NSN 8030-00-062-6950

| Part # | Size | Type |
|--------|--------------------|---------|
| 0037 | 11 oz. (0.32 l.) | Aerosol |
| 0038 | 5 gal. (18.93 l.) | Liquid |
| 0039 | 55 gal. (208.2 l.) | Liquid |



CorShield® VpCI-369™ Wet Film Lubricant and Corrosion Inhibitor

- Non-drying
- Excellent lubricity
- Self-healing
- MIL C-16173D (Grades 1, 2, & 4)
- NSN 8030-00-244-1297

| Part # | Size | Type |
|--------|--------------------|---------|
| 0040 | 11 oz. (0.32 l.) | Aerosol |
| 0041 | 5 gal. (18.93 l.) | Liquid |
| 0042 | 55 gal. (208.2 l.) | Liquid |



VpCI™ CorrVerter®

- Stops rust and neutralizes oxidation
- No surface preparation needed
- Alternative to cleaning, sandblasting
- Water-based
- Non-toxic
- Non-flammable

| Part # | Size | Type |
|--------|--------------------|--------|
| 4113 | 16 oz. (0.47 l.) | Liquid |
| 3119 | 5 gal. (18.93 l.) | Liquid |
| 3120 | 55 gal. (208.2 l.) | Liquid |



Cor-Pak® 1-MUL Pouch

- No cleaning
- Self replenishing
- 24-month protection
- Multi-metal protection
- Dual properties- desiccant/corrosion inhibitor

| Part # | Size | Type |
|--------|--|---------|
| 0016 | 1 ft ³ . (0.3 m ³ .) | Emitter |



VpCI-126® Zipper Poly Bags

- Non-toxic
- VpCI™ "charged" interior
- No residue
- Stops rust, tarnish, staining, white rust
- Eliminates cleaning after storage
- Recyclable
- MIL PRF-22019
- MIL PRF-220200

| Part # | Size | Type |
|--------|------------------------------|------|
| 0110 | 6" x 8" (0.15 m. x 0.2 m.) | Bag |
| 0111 | 10" x 12" (0.25 m. x 0.3 m.) | Bag |
| 0112 | 12" x 18" (0.3 m. x 0.46 m.) | Bag |



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Soybean Product

EcoLine® VpCI™ Surface Cleaner & Degreaser is ready to use, industrial strength, neutral pH balanced and biodegradable.

A strong environmental concern is part of Cortec's past and future as Cortec® produces and sells products that protect metals of all kinds from environmental degradation. A strong commitment to produce products that can be recycled has been and will be our future policy.



EcoLine® VpCI™ Surface Bio-Based Cleaner & Degreaser

- Ready to use
- Industrial strength
- Designed to be used in industrial and commercial cleaning applications
- Neutral pH balanced
- Includes proprietary VpCI™ corrosion protection after cleaning
- Biodegradable

| Part # | Size | Type |
|--------|--------------------|---------------|
| 3568 | 16 oz. (0.47 l.) | Trigger Spray |
| 3557 | 5 gal. (18.93 l.) | Liquid |
| 3558 | 55 gal. (208.2 l.) | Liquid |



As soon as the ISO 14001 guidelines were published in 1996, Cortec® made the commitment to become ISO 14001 certified. In March 1998, Cortec® Corporation became one of the first companies in Minnesota to receive ISO 14001 certification.



EcoLine® VpCI™ Bio-Based Long Term Rust Preventative

- Multi-metal protection
- Designed to protect against salt spray and high moisture conditions
- Includes proprietary VpCI™ long-term corrosion protection
- Biodegradable

| Part # | Size | Type |
|--------|--------------------|---------------|
| 2419 | 16 oz. (0.47 l.) | Trigger Spray |
| 3084 | 5 gal. (18.93 l.) | Liquid |
| 6405 | 55 gal. (208.2 l.) | Liquid |



EcoLine® VpCI™ Bio-Based Cutting Fluid

- Cools work piece and tools
- Provides corrosion protection and lubrication
- Non-toxic/non-hazardous
- Eliminate galling and seizing
- Biodegradable

| Part # | Size | Type |
|--------|--------------------|------------------|
| 2420 | 16 oz. (0.47 l.) | Squirt Container |
| 1979 | 5 gal. (18.93 l.) | Liquid |
| 1980 | 55 gal. (208.2 l.) | Liquid |

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Features

- VpCI™ enhanced
- Bio-based Soya derivative
- Biodegradable
- Environmentally friendly
- Latest biotechnology
- Conforms to EPA's EPP criteria
- Non-flammable
- Meet USDA's Bio-based EO 13101
- Alternative to petroleum
- No CFC's or HCFC's
- Protects against corrosion
- Revolutionary technology

EcoLine®



EcoLine® Bio-Based All Purpose Lubricant is an easy to use biodegradable VpCI™ lubricant which provides greaseless lubricity while it displaces moisture.



EcoLine® Bio-Based All Purpose Lubricant

- Displaces moisture
- Greaseless lubricity
- Modified for use with extreme pressure loads
- Includes proprietary (VpCI™) technology
- Biodegradable

| Part # | Size | Type |
|--------|--------------------|--------|
| 4108 | 16 oz. (0.47 l.) | Spray |
| 3551 | 5 gal. (18.93 l.) | Liquid |
| 2151 | 55 gal. (208.2 l.) | Liquid |



EcoLine® Bio-Based Bearing, Chain & Roller Lubricant

- Thermally stable
- Resists sling-off from high speed chains
- Prevents smoking when under load
- Reduces vibration and noise
- Biodegradable
- Non-flammable

| Part # | Size | Type |
|--------|--------------------|------------------|
| 2580 | 16 oz. (0.47 l.) | Squirt Container |
| 2346 | 5 gal. (18.93 l.) | Liquid |
| 2347 | 55 gal. (208.2 l.) | Liquid |



EcoLine® Bio-Based H-1 Food Grade Grease

- Biodegradable
- Meets USDA bio-based product definition
- Replaces traditional mineral oil based food grade greases
- Includes VpCI™ technology
- Multi-metal protection

| Part # | Size | Type |
|--------|--------------------|--------|
| 6335 | 14 oz. (0.41 l.) | Grease |
| 6327 | 16 oz. (0.47 l.) | Grease |
| 2380 | 5 gal. (18.93 l.) | Grease |
| 2381 | 55 gal. (208.2 l.) | Grease |



EcoLine® Bio-Based Premium Heavy Duty Grease

- Biodegradable
- Meets USDA bio-based product definition
- Superior lubricity
- Includes VpCI™ technology
- Indoor and outdoor multi-metal protection

| Part # | Size | Type |
|--------|--------------------|--------|
| 2296 | 14 oz. (0.41 l.) | Grease |
| 0500 | 5 gal. (18.93 l.) | Grease |
| 0501 | 55 gal. (208.2 l.) | Grease |

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EcoClean® & EcoSpray®



EcoClean® 423 Rust Remover

- Removes surface rust, tarnish
- Excellent for rust stains
- 100% Biodegradable
- USDA approved
- Clings to vertical surface



EcoClean® 433 Graffiti Remover

- Removes ink, wax, paint
- Non-corrosive
- Non-hazardous
- Gel clings to vertical surface
- Environmentally safe

EcoSpray® and EcoClean® products attack the toughest maintenance duties while respecting the environment. They incorporate non-toxic, biodegradable chemicals without aerosols, propellants, or ozone-depleting CFCs. Fast-acting, dependable, and safe to handle, EcoSpray® and EcoClean® lead the way in environmentally safe technology.

| Part # | Size | Type |
|--------|--------------------|------|
| 0436 | 16 oz. (0.47 l.) | Gel |
| 0105 | 5 gal. (18.93 l.) | Gel |
| 0106 | 55 gal. (208.2 l.) | Gel |

| Part # | Size | Type |
|--------|--------------------|------|
| 4102 | 16 oz. (0.47 l.) | Gel |
| 0733 | 5 gal. (18.93 l.) | Gel |
| 0734 | 55 gal. (208.2 l.) | Gel |



EcoSpray® 238 Electronic Cleaner

- Cleans and protects
- CFC free
- Displaces moisture
- Vapor phase protection in vented or unvented enclosure
- Does not alter electrical resistance



EcoSpray® 416 Cleaner/Degreaser

- Heavy duty cleaner of grease, oil, soils
- Non-toxic
- Multi-metal corrosion protection
- Mild foaming
- USDA approved



| Part # | Size | Type |
|--------|------------------|------------|
| 0432 | 16 oz. (0.47 l.) | Pump Spray |

| Part # | Size | Type |
|--------|--------------------|---------------|
| 0435 | 16 oz. (0.47 l.) | Trigger Spray |
| 0355 | 5 gal. (18.93 l.) | Liquid |
| 0356 | 55 gal. (208.2 l.) | Liquid |



EcoSpray® 325 Industrial Lubricant

- Environmentally friendly
- Universal corrosion protection
- Excellent penetrating properties
- Effective in adverse climate conditions
- Wet film/non-drying



EcoSpray® 389 Rust Blocker

- Excellent outdoor protection
- Multi-metal protection
- Superior salt spray resistance
- Replaces oil based inhibitors
- Easily removed with alkaline cleaner

| Part # | Size | Type |
|--------|--------------------|---------------|
| 0433 | 16 oz. (0.47 l.) | Trigger Spray |
| 0430 | 5 gal. (18.93 l.) | Liquid |
| 0431 | 55 gal. (208.2 l.) | Liquid |

| Part # | Size | Type |
|--------|--------------------|---------------|
| 0434 | 16 oz. (0.47 l.) | Trigger Spray |
| 3555 | 5 gal. (18.93 l.) | Liquid |
| 3556 | 55 gal. (208.2 l.) | Liquid |

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ECO PRODUCTS

We are proud to introduce a major step forward in aerosol technology: EcoAir® air-powered aerosol products. For the first time in the industry, we are providing aerosol products that are powered by compressed air rather than traditional chemical propellants. This technology is innovative because product is filled into a four-layer Mylar EcoPouch™ inside the can, which is pressurized. As the valve is depressed, the surrounding pressure expels the bag's contents. The major advantages of EcoAir® technology are:

- Non-flammable
- No product contamination by propellant
- Safer to ship and store, with very low or no environmental impact
- Unique water-based products
- Spray in any direction, even upside-down



EcoAir®



EcoAir® VpCI-414™ Cleaner/Degreaser

- Fast cleaning
- Water based
- Removes oil and grease
- Multi-metal protection
- Biodegradable

| Part # | Size | Type |
|--------|------------------|-------------|
| 1806 | 13 oz. (0.38 l.) | Air Powered |



EcoAir® VpCI-422™ Non-toxic Rust Remover

- Rust and stain remover
- Non-polluting
- Organic chemistry
- USDA approved
- Biodegradable

| Part # | Size | Type |
|--------|------------------|-------------|
| 2273 | 14 oz. (0.41 l.) | Air Powered |



EcoAir® VpCI-324™ Anti-Bacterial Penetrant

- Loosens rusty parts
- Displaces water
- Multi-metal protection
- USDA H-1 approval
- Low surface tension

| Part # | Size | Type |
|--------|-----------------|-------------|
| 1802 | 10 oz. (0.3 l.) | Air Powered |



EcoAir® VpCI-377™ Corrosion Preventative

- Water based
- 1 year indoor protection
- Clean, dry, hydrophobic film
- Non-flammable
- Paintable
- Multi-metal protection

| Part # | Size | Type |
|--------|------------------|-------------|
| 3046 | 12 oz. (0.35 l.) | Air Powered |



EcoAir® VpCI-337™ Vapor Charge Fogger

- Excellent internal protection for crates, boxes and shipping containers
- Non-toxic
- Dries tack free
- Non-flammable
- Locking release valve

| Part # | Size | Type |
|--------|------------------|-------------|
| 1804 | 13 oz. (0.38 l.) | Air Powered |



EcoPouch™

Visit us at www.cortecvci.com

For technical information call **(800) 4-CORTEC**

LAYUP, STORAGE & MOTHBALLING



Cooling Loop Gator®

- Dry or wet lay-up of cooling towers
- Environmentally friendly & non-toxic
- Compatible with cooling water chemistries
- Unique VpCI™ action & three phase protection
- Up to 24 months protection with one application

| Part # | Size | Type |
|--------|-------------------|--------|
| 1178 | 4/2.2 lb. (1 kg.) | Powder |

Boiler Lizard®

- Dry lay-up of boilers
- Easy start up
- Environmentally friendly & non-toxic
- Compatible with boiler water chemistries
- Unique VpCI™ action & three phase protection
- Up to 24 months of protection with one application

| Part # | Size | Type |
|--------|---------------------|--------|
| 2044 | 1 3.3 lb. (1.5 kg.) | Powder |

M-529 Multi-purpose Oil Additive

- Compatible with most types of engine oils, gear oils, hydraulic oils
- Unique VpCI™ action & three phase protection
- Protects during the operation as well as the storage mode
- Easy-to-use

| Part # | Size | Type |
|--------|--------------------|--------------|
| 3096 | 5 gal. (18.93 l.) | Oil Additive |
| 3097 | 55 gal. (208.2 l.) | Oil Additive |
| 3565 | 275 gal. (1041 l.) | Oil Additive |



Need for corrosion protection during a temporary or long term storage, lay-up, or a mothballing is a demanding application. As an industry leader, Cortec® employs the most effective and latest environmentally friendly technology in corrosion prevention for protective storage.

Examples of equipment protected with Cortec's VpCIs:

- Pumps
- Boilers
- Gear cases
- Electric motors
- Cooling towers
- Heat exchangers
- Compressor rotors
- Bearings & bushings
- Pressure vessels and tanks
- Diesel & gasoline engines

There are several other unique Cortec® products that are utilized in lay-up applications. Please consult your Cortec® representative for further details.

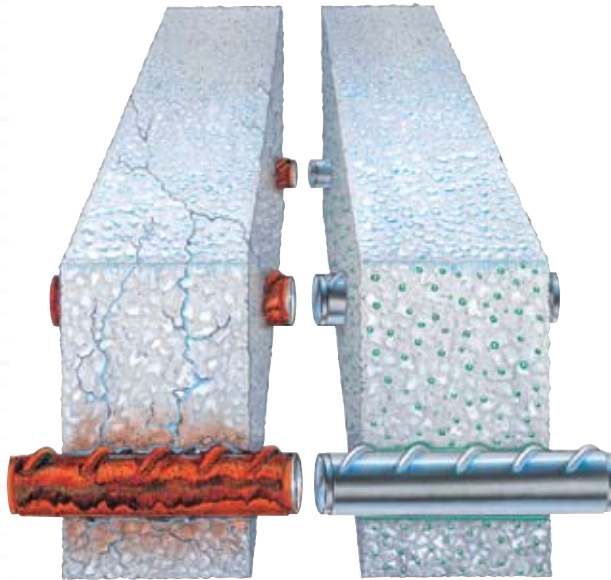
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CONCRETE PROTECTION

Cortec's patented MCI® technology protects reinforcing metal in concrete from corrosion. MCIs, Migrating Corrosion Inhibitors™, rehabilitate existing concrete structures and extend the life span of new structures. Often corroding rebar in deteriorating concrete is the cause of costly repairs, financial losses, injuries and deaths, but Cortec® has the corrosion solution. Cortec® MCI® products for concrete maintain structural integrity, rehabilitate vulnerable structures and alleviate environmental concerns. A unique feature of MCI® is that the inhibitor will migrate a considerable distance through concrete to protect the embedded ferrous metals.

MCI® PRODUCTS



Cortec® makes a MCI® product that protects rebar in concrete from corrosion in new and existing structures (left). MCI® inhibitors will migrate a considerable distance through concrete to protect the embedded ferrous metals.

MCI® 2026 Floor Coating (right) meets all of the USDS guidelines for use in Federally inspected poultry and meat plants



MCI® 2039

- Two-component, fiber reinforced repair mortar
- Can be applied by trowel & normal rendering tools and/or a spray rendering machine
- MCI® not only offers corrosion protection to the repair area, but to adjacent areas as well
- Low modulus of elasticity
- Thixotropic

| Part # | Size | Type |
|--------|-----------------------------|--------|
| 836 | 55.1 lb. (24.99 kg.) Part A | Powder |
| 837 | 11.25 lb. (5.1 kg.) Part B | Liquid |

MCI® 2038

- Two-component, fiber reinforced repair mortar
- Can be applied by trowel & normal rendering tools and/or a spray rendering machine
- Similar properties to MCI® 2039, but with smaller aggregate for a smooth finish
- Thixotropic

| Part # | Size | Type |
|--------|-----------------------------|--------|
| 2427 | 55.1 lb. (24.99 kg.) Part A | Powder |
| 2436 | 11.25 lb. (5.1 kg.) Part B | Liquid |

MCI® Grenades

- MCI® admixture for new concrete construction or repair
- Does not affect air entrainment, compressive strengths or setting time of the concrete mix
- Does not contain calcium nitrate
- Non-flammable
- Environmentally friendly

| Part # | Size | Type |
|--------|----------------------|------------|
| 953 | MCI® Grenades | Powder/Bag |
| 2125 | MCI® Metric Grenades | Powder/Bag |
| 2135 | MCI® Mini Grenades | Powder/Bag |

MCI® 2022

- Water-based silane/siloxane based sealer
- Apply by spray, roller, squeegee or paint brush
- Non-toxic, contains no nitrites, phosphates or solvents
- Penetrates deep into concrete to block carbonation & Cl intrusion
- MCI® migrates to protect embedded steel reinforcement

| Part # | Size | Type |
|--------|------------------------|----------------|
| 948 | 5 gal. (18.93 l.) | Liquid |
| 3562 | V/O 5 gal. (18.93 l.) | Viscous Liquid |
| 949 | 55 gal. (208.2 l.) | Liquid |
| 3563 | V/O 55 gal. (208.2 l.) | Viscous Liquid |

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For technical information call (800) 4-CORTEC®

Cortec® MCI® Features

- Organic, safe & environmentally friendly
- Provides multimetal protection
- Does not contain any calcium nitrite
- Protects against corrosion even in dense concrete
- Does not affect the physical properties of the concrete mix (air entrainment, set time, strength or slump)

General Applications

- All reinforced, precast, prestressed, post-tensioned or marine concrete structures
- Restoration and repair of all reinforced concrete structures.
- Parking decks, ramps and garages
- Concrete industrial floors, piers, piles, pillars, pipe and utility poles.
- Steel reinforced concrete bridges, highways, streets and building facades exposed to corrosive environments.



MCI® 2020

- Available in v/o version
- UL certified to meet NSF Std. 61 requirements
- Easily applied by spray, brush or roller
- Surface applied migrating corrosion inhibitor for existing concrete structures
- Confirmed effective in initial field evaluation
- No cure time required

| Part # | Size | Type |
|--------|------------------------|----------------|
| 168 | 5 gal. (18.93 l.) | Liquid |
| 2163 | V/O 5 gal. (18.93 l.) | Viscous Liquid |
| 169 | 55 gal. (208.2 l.) | Liquid |
| 2162 | V/O 55 gal. (208.2 l.) | Viscous Liquid |

MCI® 2038 and MCI® 2039 repair mortar not only offers corrosion protection to the repair area, but to adjacent areas as well.

MCI® 2026 Floor Coating

- 100% solids, 2-component, novolac epoxy
- Excellent corrosion and abrasion resistance
- Meets all of the USDA guidelines for use in Federally inspected poultry & meat plants
- Available in clear, gray and a selection of colors
- Can be made anti-slip

| Part # | Size | Type |
|--------|--|-----------------|
| 2284 | 2.5 gal. kit (125-150 ft ² /gal) (9.46 l.) (38.1-45.72 m ² /l) | 2 component kit |

MCI® 2026 Primer

- Recommended primer for MCI® 2026 Floor Coating
- VOC compliant odorless and solvent free
- Moderate chemical resistance and good abrasion resistance
- Eliminates concrete dust
- Meets USDA guidelines for use in federally inspected poultry and meat plants

| Part # | Size | Type |
|--------|--|-----------------|
| 2285 | 3 gal kit (250-350 ft ² /gal) (11.36 l.) (76.2-106.7 m ² /l) | 2 component kit |

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Cortec® Corporation's World Headquarters.
Committed to nature's preservation.

TOTAL CORROSION CONTROL™

Cortec® Corporation® is dedicated to controlling corrosion at ALL STAGES of a product life cycle. Cortec® has developed a diverse range of corrosion protection products including cleaners, metalworking fluids, water- and oil-

based coatings and corrosion inhibitors, rust removers, paint strippers, powders, packaging foams, paper, films, and surface treatments and admixtures for concrete. Contact Cortec® for additional brochures and information.

Visit our website for more information on Cortec® Vapor phase Corrosion Inhibitors™.

CortecVCI.com and CortecMCI.com

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