MILCORR®
ASSET PRESENTATION SYSTEM FOR THE MILITARY

CORTEC CORPORATION
Many types of corrosion prevention measures have been adopted over the years by the military. Now, new strategies are continually being developed and evaluated for effective corrosion control. Loss due to corrosion has become a major priority for militaries.

**Some Militaries choose to do Nothing!**

War Readiness is a Key Factor now being taken into consideration, and Cortec has the solutions needed that fit easily into existing application systems that will reduce costs of protection with more efficient and economical solutions. Cortec can extend asset life and enhance war readiness.

**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 to prevent galvanic corrosion.

**Short- and long-term protection.**

There’s a Cortec® solution whether you need temporary protection during maintenance and operations, medium-term protection for shipment and storage or extended protection for lay-up, mothballing and field service for anything from weaponry to ground equipment to vehicles to avionics.

**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 molecular 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. Cortec® barrier coatings are easily removed with conventional cleaning methods.

**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 most precision electronic devices where conductivity, permittivity 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, parts stored in a small box, large containerized shipments, to vehicles and equipment.

**How Cortec VpCI’s (Vapor phase Corrosion Inhibitors) Work**

**VpCIs:**

- Vaporize.
- 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 which is adsorbed to the metal surface.
- Have a high bonding energy.
- Are individual or combinations of chemical compounds with varying vapor pressures.
- Protective layer re-heals and self-replenishes through further condensation of the vapor. VpCI combines with other functional properties:
  - Antistatic
  - Lubricating
  - Cleaning
  - Paint Removing
  - Desiccant
  - Polymeric
  - Coatings
  - Rust Removing
  - Fire Retarding
  - Surface Protection
These new delivery systems offer practical, economical breakthroughs for the protection of metal parts and products. Cortec’s innovative use of VpCI/MCI technology makes these treatment methods possible.

Cortec® VpCIs are uniquely formulated for many types of delivery systems. Whether liquid, powder, impregnated foam or plastic, VpCI formulation uses technology to its best advantage for effective and economical corrosion protection.

The creative use of VpCI technology offers improved protection even for conventional applications (brush, rubber blade, dip or spray).

**More Efficient Delivery Systems.**

- Add
- Package
- Insert
- Wrap
- Clean
- Automatic dispense
- Dip
- Attach
- Roll-on
- Brush
- Cushion
- Electrostatic spray
- Inject
- Disperse
- Migrate
- Fog
- ESD
- Coat

**Benefits and How Cortec® VpCIs Cut Costs.**

- Multifunctional products.
- Environmentally friendly.
- More effective protection that check, decrease and prevent atmospheric corrosion.
- Efficient delivery systems that make it economical to treat hard-to-protect items.
- Easy application.
- Improved health and safety.
- Elimination of extra processing steps
- No need to remove VpCI protection, metals are ready for immediate use.
- Extension of equipment life.
- Economical.
- Immediate war readiness.

Use Cortec® systems in every stage of a product’s life, starting from the production of metal stock to actual use in the field. When properly applied, Cortec® VpCIs substantially cut time and costs throughout the entire product life cycle: in manufacturing, temporary and deep storage, shipment and field service.

Cortec® VpCIs eliminate many extra processing steps such as cleaning, degreasing, rust removal, pickling, sandblasting and repainting. You have less re-work, fewer rejects, improved quality, reduced rust claims and extended equipment life.

**Multifunctional Products.**

From packaged products stored indoors to products located outdoors in adverse conditions, new generation VpCI systems make it more profitable to solve a corrosion problem than to ignore it.

For example, you can:

1. Fog a void space in a few minutes and eliminate corrosion problems for long term protection.
2. Protect on-site, operational electrical circuitry for pen- nies a day.
3. Easily spray valve flanges and stems with an outdoor coating for extended protection.
4. Boost the protection of your lubricating oils and fluids with an additive effective for multimetal systems.

These four examples just begin to show how Cortec® VpCIs successfully solve the problem caused by impractical conventional corrosion treatments.
Manufacturing.

During the manufacturing of your product, whether circuit boards or metal stampings, Cortec® products easily integrate into fabrication and assembly processes. While eliminating the corrosion of ferrous and non-ferrous metals, Cortec® products provide lubrication, enhancing production speeds and tool life to help produce and maintain first-quality asset preservation.

Cortec® corrosion inhibitors provide you with unique solutions to difficult corrosion problems. Use VpCI powders to protect difficult-to-reach voids. Water-based inhibitors replace oily coatings and coolants, and provide easy-to-remove intermediate protection. Water soluble additives in hydro test and hydro blasting solutions protect during and after use. VpCI emitters protect electronic and electrical assemblies during the various stages of fabrication, assembly, shipping and field operation.

Throughout the life of your tank, valve, compressor, circuit board, electrical box, printing press, or whatever your product may be, Cortec® protects your assets from beginning to end.

Packaging.

Cortec® offers a full line of standard and custom packaging products in conformance with various military, ASTM, DIN, JIS, BS and other international standards. Cortec® packaging products include papers, films, foams, cushioning bubbles and inserts. All of the packaging products provide multmetal corrosion protection, are non-toxic and recyclable.

Papers: Cortec® VpCI papers provide corrosion protection in several different applications including single item packaging, multiple item wrapping for bulk shipments, weaponry, ammunitions, OEM and automotive parts packaging for storage and shipping, and sheet liners for product separation. These paper products are nitrite free.

Films: Cortec® VpCI films provide protection in a variety of forms to suit your packaging needs. Films range from general use polyethylene to shrink wrap, stretchable and reinforced constructions. All films have excellent clarity.

The multifunctional VpCI-125 films and bags incorporate Vapor phase Corrosion Inhibitors, desiccant and antistatic construction.

VpCI-126 bags and films employ moisture absorbing action and are available in high performance constructions.

VpCI-129 is a barrier protection which maintains a vacuum and is excellent for high temperatures and humidity.

The MilCor® shrink film was especially developed for military use featuring high UV absorption and flame retardancy with Cortec’s superior corrosion protection.

Foams: Cortec® impregnated foams and Cor-Pak™ bubbles protect precision machined parts and highly sensitive electronic components. They protect items from breakage and surface damage – like scratches. Cortec® EcoShield® protects delicate items with its abrasive-proof lining and absorbs condensation as well.

Inserts: Cortec® VpCI inserts provide exceptional absorption and even reach recessed areas. Inserts fit into virtually any packaging system and come in pouches, tablets, foam circles and squares.
Unlike conventional corrosion inhibition methods, Cortec® VpCls are self-replenishing. Add Cortec® VpCls into any part of your system at single or multiple points. For example, inject VpCls automatically into a system — without any operator attendance — and immediately start protecting hundreds of feet of piping in steam lines, liquid distribution systems or hundreds of kilometers of pipeline.

As a pro-environmental corrosion treatment of the 21st century, Cortec® VpCls are free of chromates, other heavy metals, phosphates or chlorinated hydrocarbons. These new organic formulations give you an environmentally acceptable way to protect equipment. From aggressive brine solutions in wells, to protecting miles of remote pipeline, Cortec® VpCls extend the life of equipment and provide protection in the interface, liquid phase and vapor phase.

In cases where equipment or systems require lay-up for temporary shutdown or long-term mothballing, Cortec® products offer many benefits. You can apply them easily, quickly, and usually without surface preparation to your piping, tubes, tanks, motors, generators, etc... External as well as internal working surfaces and mechanical parts are effectively protected. You select the degree of protection needed based on the severity of the environment and the length of exposure. Your protected equipment will always be ready for use.

Costs may be decreased 40-60% according to well documented data for deep storage and preservation of military vehicles and equipment. As well, since removal or draining of VpCls is not necessary immediate war readiness can now be realized. Savings of millions of dollars in hazardous waste generation is also a part of this actual real life data.
Metal Treatments and Surface Preparation

Cortec® Metal Treatments come in liquid and gel form for dip, spray and brush-on applications. Cortec® pro-environmental products for metal treatments also include biodegradable cleaners and non-polluting paint stripper.

Cortec® Rust Removers are based on organic chemicals that remove oxide and tamish from iron, copper, brass and aluminum. These formulations replace harsh acids. When used as recommended, the rust removers are non-polluting as well as mild to human skin, most paints, plastics, woods, textiles, ceramics and rubber.

Made from water-based, natural ingredients whenever practical, most Cortec® cleaners and degreasers are biodegradable, non-toxic and non-flammable. They are specially formulated for safety and multi-purpose, multimetal use. They also include corrosion inhibitors to prevent flash rust of freshly cleaned surfaces.

Cortec® paint stripper was also developed with consumer safety in mind. It is free of methylene chloride, chlorinated solvents, methanol, toluene or acetone, yet removes paint in three to 30 minutes.

New Delivery Systems.

The Cortec Corwipe 500 is a revolutionary multipurpose wipe that cleans and leaves behind corrosion inhibitor protection. This wipe is environmentally safe, and can be used without gloves. Corwipe eliminates the need for separate bottles of cleaners and has a fresh lemon scent. Antistatic properties are excellent for use on sensitive electronics.

Maintenance and Operations.

With the use of VpCIs the extension of life cycles for vehicles, equipment, or operating systems be it land, air, or sea is done with the same basic procedures used in everyday maintenance instruction procedures. There is no need to purchase additional application or removal equipment. Special facilities are not necessary as well!

Elimination of the need for application and storage facilities give the use of Cortec VpCI product an extra advantage over other conventional or exotic maintenance and preservation programs. Again, Cortec can save millions.
All Cortec® coatings deliver exceptional protection, even in extreme outdoor industrial, naval, marine and tropical environments.

Cortec’s® complex formulas of non-toxic, organic inhibitors offer protection far exceeding most paints, primers and solvent-based products. Many of these unique, water-based coatings pose no threat to personnel or the environment. They also offer outstanding permanent or temporary protection even in harsh, unsheltered applications.

In many situations, one application of a Cortec® coating serves as both a primer and top coat for needs ranging from temporary shipping protection to years of demanding outdoor industrial or marine use. Little or no surface preparation is required in many cases.

When a Cortec® primer coating is used, you may apply most topcoats with no loss of VpCI or barrier protective capability. Coatings are available in stock and custom colors, plus UV protection.

For immersion service, epoxy formulations containing VpCI additives are available for applications such as ballast tanks, pumps, pipelines and structural steel.

Concrete Structures.

Migrating Corrosion Inhibitors™ (MCIs®), a technology developed by Cortec® researchers, rehabilitate concrete structures which deteriorate due to corrosion of the reinforcing steel. MCI® is added to the concrete mixture during construction of new structures and during the rehabilitation process of old structures. The concrete containing MCI® compound is applied in the normal fashion. The MCI® inhibitor migrates through the old concrete and seeks any ferrous metal in the structure. It attaches to the reinforcing bars and steel mesh, forming a thin protective layer of MCIs®. To prevent future corrosion, the MCI® layer prohibits chemical reaction between chlorides and steel in the structure. MCI® inhibitors are effective in fighting high chloride levels from de-icing salts applied to highways and bridges, airborne salts that attack marine structures and other structures near the ocean, and deterioration by acid rain and carbonation. MCI® technology can also protect structures such as tanks and pipes with thermal insulation.

In addition to mixing with concrete at the job site or plant, use Cortec® MCIs® as a surface treatment or inject into the concrete structure.
Biodegradable Films
Eco-Corr® & EcoFilm™
Cortec’s technological breakthrough of fully biodegradable films was designed to aid businesses and governments in complying with stringent environmental guidelines. Cortec® Eco-Corr® and EcoFilm™ were designed to easily biodegrade in outdoor, landfill and compost conditions. Eco-Corr® and EcoFilm™ are superior to traditional packaging films in many ways. Tests have proven that they are twice as strong as conventional LDPE films. Eco-Corr®, with Cortec’s patented VpCI (Vapor phase Corrosion Inhibitor) protection, is ideal for packaging applications where metal corrosion protection is crucial. Eco-Corr® and EcoFilm™ are environmentally safe packaging film solutions.

EcoAir®
EcoAir® Air-Powered Aerosol products are a major step forward in aerosol technology. For the first time in any industry, we can offer aerosol products that are powered by compressed air rather than traditional chemical propellant. This innovative technology provides products in a four-layer Mylar EcoPouch™ inside the can. As the valve is depressed, the surrounding pressure expels the bag’s contents. EcoAir® products have been specially formulated to improve safety for the consumer as well as the environment. These safety improvements are reflected in the HMIS ratings for each product. The major advantages of EcoAir® technology are:
• Nonflammable
• Spray in any direction, even upside down
• No product contamination by propellant
• Safer to ship and store, with very low or no environmental impact, no CFC’s, 1,1,1 trichloroethane or other chlorinated solvents.
• Unique water-based products for tough maintenance applications.

EcoLine™
EcoLine™ products are based on a renewable resource soybean derivative, soybean methyl esters. Methyl ester building blocks have been used in this revolutionary, environmentally low-impact technology. These soya-based products provide excellent lubricity, cleaning action, corrosion protection - and are completely biodegradable. EcoLine™ products are better for the environment and leave behind a high performance VpCI corrosion-protecting layer. EcoLine™ heavy duty maintenance products include: no residue cleaner and degreaser, lubricant and penetrant, heavy duty corrosion inhibitor/lubricant, and cutting fluid containing VpCI.

EcoSpray® & EcoClean®
EcoSpray® and EcoClean® products attack the toughest maintenance duties while respecting the environment. They incorporate low toxicity chemicals without aerosols, propellant, or ozone-depleting CFCs. Fast-acting, dependable, and safe to handle, EcoSpray® and EcoClean® lead the way in environmentally safe technology.
### Metal Protection Guide

#### Metals

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#### Exposure Limitations

1. **Enclosed.** For use in non-ventilated equipment housings, control boxes, or other enclosures. Packaged in cardboard, paper, plastic wrap or metal containers.
2. **Inside.** In addition to the condition described above, for use in uncovered/inside storage.
3. **Outside.** In addition to the condition described above, for use in sheltered/outside storage.
4. **Outside sheltered.** In addition to the three conditions described above, for use in uncovered/outside storage.
5. **Immersion.** In addition to the four conditions described above, also for immersion service in corrosive liquids such as salt water, crude oil, etc.

#### Key

- **Recommended**
- **Consult Cortec® For Specific Usage**
- **Not Recommended or Test Data Not Available**

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**Note:** This table provides a guide to the compatibility of various metal protection products with different metals. Each product is rated for its effectiveness in protecting specific metals under different conditions. The ratings indicate the level of protection provided, with higher numbers indicating better protection. The key at the bottom of the page helps interpret these ratings.
**Product Descriptions**

**VpCI-101 Impregnated Foam Device, Patented**
Unique dual action: desiccant/VpCI protection.
VpCI impregnated foam for multi-protection. Comes with adhesive backing and is individually packaged in plastic. Each device is 1.23" (32 mm) wide, 3" (76 mm) long, and 0.25" (6 mm) thick. Use one device per 1.0 cu. ft. (28 liters) of enclosed space. Nitrite free, non-toxic, non-polluting. Meets MIL-PRF-3420G.

**Package:** Standard and custom size roll stock and sheeting.

**VpCI-146 Multimetal Inhibitor Paper, Patented**
VpCI kraft paper protects ferrous and non-ferrous metals. Nitrite and chromate free. Fully recyclable. Conforms to MIL-PRF-3420G.

**Package:** Standard and custom size roll stock and sheeting.

**VpCI-148 Grease Resistant Paper**
VpCI paper designed for packaging of parts covered with grease or oil. Meets MIL-PRF-3420G.

**Package:** Available in standard and custom size roll stock and sheeting.

**VpCI-150 & 170 Impregnated Foam Tapes, Patented**
Unique dual action: desiccant/VpCI protection.

**Package:** 5 rolls per carton VpCI-150, and 1 roll per carton VpCI-170.

**ElectriCorr® VpCI-238/239**
Multifunctional formulation providing three-way protection: multimetal corrosion protection, antistatic and cleaning action. Corrosion inhibiting spray provides dry, ultrathin, protective film. For use in enclosed environments on electronic equipment and components. Will not alter electrical resistance, magnetic or thermal properties. Meets MIL-PRF-3420G.

**Package:** 12 oz. (340 gram) aerosol or EcoSpray® 238 pump spray, 16 oz. (473 gram) 5 gallon (208 liters) drums and 55 gallon (208 liter) drums.

**VpCI-307/309 Powders**
Vapor corrosion inhibiting powders for ferrous and many non-ferrous metals. Apply by dust, sprinkle or fog. Nitrite and chromate free. VpCI-307 meets MIL-I-22110C.

**Package:** 5 lbs. (2.27 kg), 50 lbs. (22.7 kg), 100 lbs. (45.4 kg).

**VpCI-316 Liquid Concentrate**
Synthetic, water-based inhibitor formulated for the protection of yellow metals. Provides lubrication and cooling properties during operation and dries to a transparent film.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-322 Oil-Based Concentrate**
Oil-based concentrate for use as an additive to various lubricating systems that is suitable for both operating and lay-up applications. May also be fogged into internal cavities for corrosion protection.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-323 Oil-Based Concentrate**
Oil-based concentrate for use as an additive in engine systems, and is suitable for both operating and lay-up applications. Provides corrosion protection both in contact and in the vapor phase. Also available in a higher flashpoint version (VpCI-323M).

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-334 Water-Borne Coolant/Lubricant**
Water-borne corrosion preventative coolant for use in wet tempering of galvanized or cold-rolled steel. Also can be used in light machining operations where some lubrication is required.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-345 Coolant/Lubricant**
Semi-synthetic coolant/lubricant for heavy duty machining operations such as cutting, grinding, and stamping. Provides excellent multi-metal corrosion to both equipment and machined parts.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-324 Lubricating Oil**
USDA approved lubricating oil for use on machine parts that may be in contact with food. Formulated with biocides to help minimize bacterial growth.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Also available in EcoAr® 10 oz. (283 gram) cans.

**VpCI-325 Lubricant/Corrosion Inhibitor**
Ready-to-use thin film oil based liquid for multi-metal corrosion protection. Provides excellent protection to finely machined surfaces such as gun barrels, honed or mirror-like finishes.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-336 Oil-Based Concentrate**
Oil-based concentrate for use as an additive to hydraulic systems. Contains corrosion inhibitors for protection of both ferrous and non-ferrous metals. Suitable for both operating and lay-up applications and will pass through a 1-micron filter. Meets MIL-46002 and MIL-I-85062 (AS).

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-347 Solvent-Based Concentrate**

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-339 Oil-Based Concentrate**
Oil-based concentrate for use in gearboxes, crankcases and other lubrication systems. Provides excellent corrosion protection in both the liquid, and vapor phases. Also available in super concentrate (VpCI-339SC), ready-to-use (VpCI-339D), and FDA approved (VpCI-339F) versions. Meets MIL-46002 and MIL-I-85062 (AS) NATO 6850-66132-6100.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-337 Liquid Concentrate**
Water-based concentrate that is excellent for fogging of internal spaces of pipes, tanks, and containers. Also provides excellent protection when used as an edge spray for shipping and storage applications. Contains vapor phase corrosion inhibitors for multi-metal protection.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Also available in EcoAr® 13 oz. (369 gram) fogger can.

**VpCI-338 Liquid Corrosion Inhibitor**
Water-borne corrosion inhibitor that is excellent for edge-treating of coils and sheet metal stacks and for fogging of internal enclosures. Particularly effective on ferrous metals, aluminum, and tin-plate. FDA approved for indirect contact with food. Also available as a super concentrate (VpCI-338SC).

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-344 Water-Borne Coolant/Lubricant**
Water-borne corrosion preventative coolant for use in wet tempering of galvanized or cold-rolled steel. Also can be used in light machining operations where some lubrication is required.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-345 Coolant/Lubricant**
Semi-synthetic coolant/lubricant for heavy duty machining operations such as cutting, grinding, and stamping. Provides excellent multi-metal corrosion to both equipment and machined parts.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**COLOR KEY:**
- VpCI Electronic Products
- VpCI Metalworking Products
- VpCI High Performance Coatings
- VpCI Packaging Products
- VpCI Water Treatment Products
- VpCI Enhanced Lubricants
- Surface Preparation Product
- Concrete/Construction Products
- Raw Products
**VpCI-347 Heavy Duty Lubricant**

*Package:* 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-365 Cor-Mastic™**
Formulated as a replacement for typical mastic epoxies. VpCI-365 incorporates Vapor phase Corrosion inhibitors for the ultimate corrosion protection. Excellent for immersion applications.

*Package:* 7.5 gallon (28.5 liter) kits (1 per carton).

**VpCI-367 Liquid for Outdoor Protection**
Solvent-based, non-tacky, temporary coating that provides outdoor, multi-metal protection. Excellent for use at elevated temperatures, and the coating will not run. Apply by spraying, dipping, brushing, or rolling.

*Package:* 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**VpCI-368 Liquid for Outdoor Protection**

*Package:* 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Also available in aerosol form CorShield™ 368 12 oz. (0.35 L) cans.

**VpCI-369 Liquid Concentrate**
Oil-based barrier coating that provides extended outdoor, multimetal protection. Leaves a translucent, oily film that is scratch resistant and self-healing. Can be removed with common solvents. Meets MIL-C-16173D Grade 3 (QPL product), NATO 6650-66-132-5848, NATO 6650-66-132-6099.

*Package:* 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Also available in aerosol form CorShield™ 369 12 oz. (0.35 L) cans.

**VpCI-372 Strippable Coating**
Water-based liquid applied coating that dries to a tack free, rubbery surface. Provides protection from both atmospheric corrosion and surface damage during storage and shipping. To remove, simply peel from the surface.

*Package:* 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

**VpCI-373 Wash Primer**
Water-based, fast drying surface treatment product designed as a replacement for phosphate, and chromate treatments. Conforms to MIL-P-15328D when used as a bonding primer.

*Package:* 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

**VpCI-374 Water-Based Acrylic Primer**
Water-based, acrylic primer that provides extremely good corrosion protection in nearly all environments. Based on a hydrophobic latex that has extremely good salt resistance. Can be topcoated with both water-based and solvent-based finish coats.

*Package:* 5 gallon (19 liter) pails, 55 gallon (208 liter) drums and liquid totes.

**VpCI-377 Water-Based Rust Preventative**
Water-soluble, biodegradable, rust preventative concentrate designed as a direct replacement for oil-based rust preventatives. Leaves a transparent, dry film and can be used at low concentrations.

*Package:* 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk, and EcoAir® VCI-377 13 oz. (369 gram) cans.
VpCI-414 Cleaner/Degreaser
Viscous liquid concentrate designed to remove temporary coatings from bare metal and painted surfaces. Can also be used to remove waxes, dirt, oil, greases and difficult to remove contaminants. Provides short-term, multi-metal protection after application.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, bulk and EcoAir® VpCI-414 13 oz. (369 gram) cans.

VpCI-415 Cleaner/Degreaser
Heavy-duty, biodegradable alkaline cleaner/degreaser for use in aircraft applications. Excellent for removing oils, greases, dirt and carbon build-up. Provides multi-metal corrosion protection after cleaning. Meets MIL-PRF-87357C.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-416 Cleaner/Corrosion Inhibitor
Heavy-duty, alkaline cleaner and degreaser that can be used in industrial applications. Effective in neutralizing metal surfaces after acid cleaning or pickling operations. Also can provide corrosion protection for up to 6 months during indoor storage.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-417 Cleaner and Degreaser (Powder), patented
Heavy-duty cleaner and degreaser developed for cleaning industrial equipment. Works very well in both power washers and ultrasonic equipment. Low foaming formulation that is phosphate free. Provides short-term, multi-metal corrosion protection after cleaning.

**Package:** 50 lb (23 kg) boxes and 100 lb (45.4 kg) drums. Safe-T-Charges 5 lb (2.3 kg) water soluble bags.

VpCI-418/418L, patented
Heavy-duty alkaline cleaner and degreaser for use in industrial cleaning equipment. Non-foaming cleaner that provides multi-metal corrosion protection after the cleaning process.

**Package:** VpCI-418: 50 lb (23 kg) boxes, and 100 lb (45.4 kg) drums. VpCI-418L: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. Safe-T-Charges 5 lb (2.3 kg) water soluble bags.

VpCI-419 Cleaner/Degreaser Concentrate
Heavy-duty cleaner and degreaser concentrate developed for cleaning industrial, oilfield, refinery and marine equipment. Provides temporary corrosion protection to ferrous metals.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-422 Organic Rust Remover
Environmentally friendly, biodegradable rust and tarnish remover for ferrous and non-ferrous metals. Incorporates VpCI technology so that it is not aggressive to the metal substrate. Will not harm human skin, most paints, plastics, rubber, or other materials.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-423 Organic Rust Remover Gel
Gel version of VpCI-422 that is excellent for application to vertical surfaces and hard to reach areas.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. Also available in EpoClean® 423, 16 oz. (0.47 liter) pump spray bottle and EcoAir® VpCI-423 16 oz. (397 gram) cans.

VpCI-425 Neutral Rust Remover Powder

**Package:** 5 lb (2.3 kg) boxes, 50 lb (23 kg) boxes and 100 lb (45.4 kg) drums.

VpCI-426 Rust Remover
Heavy-duty, liquid concentrate to remove rust, scale, and oxidation from virtually any metal surface. Especially effective in removing oxidation from aluminum, carbon steel, stainless steel, and copper. Incorporates VpCI technology.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-426 Gel Rust Remover
Gel version of VpCI-426 that is excellent for application to vertical surfaces and hard to reach areas.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-426 Powder Rust Remover, patented
Non-hazardous, water-soluble powder, that is used in low dosages for removal of rust, scale, oxidation and tarnish. Has a working pH of between 3-4, and is especially effective for cleaning stainless steel. Works very well in ultrasonic applications.

**Package:** 50 lb (23 kg) boxes and 100 pound (45 kg) drums. Safe-T-Charges 5 lb (2.3 kg) water soluble bags.

VpCI-427/428 Aluminum Cleaner
Water-based, liquid concentrate that dissolves oxides/scale from aluminum. VpCI-428 is a thioctric, gel version that will cling to vertical surfaces.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-432/433 Paint Remover
Heavy-duty liquid or gel paint stripping formulation designed to remove paints and coatings. Particularly effective for removal of alkyds, acrylics and urethanes. Can be used on metal, concrete, and wood surfaces. VpCI-432 is a gel version of VpCI-433.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk.

VpCI-605 De-icing Salt Additive
A non-toxic, environmentally friendly corrosion inhibitor designed specifically as a de-icing salt additive to prevent corrosion due to chlorides.

**Package:** 5 lb. (2.3 kg), 50 lb. (23 kg) and 100 lb. (45 kg) lined drums.

VpCI-609 Powder for Ferrous Metals
Powder for wet or dry lay-up of ferrous metals or aluminum.

**Package:** 5 pound (2.3 kg), 50 pound (23 kg) and 100 pound (45 kg) moisture barrier bags packed in fiber-lined drums.

VpCI-611 Additive for Hydro Testing, wet blasting and flash rust prevention for ferrous metals.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-615 Corrosion Inhibitor for Boilers
Phosphate-based long-term corrosion inhibitor which protects low to medium pressure boilers.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-617 Boiler Water Treatment
Water soluble, provides long-term protection against corrosion and scale formation. Suitable for low to medium pressure boilers.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-619 Undercoating for Insulated Surfaces
A water-based protective coating for metal surfaces that will be subsequently covered with thermal insulation. High temperature resistant formulation.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-629 Inhibitor for Oil, Gas and Petrochemical Processing
Concentrated inhibitor that forms inhibitory layer to protect internal surfaces of process equipment, pipelines, tanks, vessels, reactors, valves, etc. Used for transportation and storage of hydrocarbon liquids and some gases.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-629D/HF/SC Inhibitor for Oil, Gas and Petrochemical Processing
Inhibitor for low temperature environments with similar properties of VpCI-629. HF is a high flash point version, and SC is a super-concentrated version.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-637 Inhibitor for Gas Flow and Transmission Lines
Provides internal corrosion protection for gas flow and gas transmission lines. Effective against water, corrosive gases and chlorine contamination.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-638
FDA-acceptable rust preventative concentrate for closed loop applications.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-639 High Temperature Inhibitor for Oil, Gas and Petrochemical Processing
Inhibitor for high temperatures in oil and gas wells, refineries, gas processing, petrochemical processes and other hydrocarbon processes.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

VpCI-641 Corrosion Inhibitor for Fresh Water
Water-based rust preventative for the protection of ferrous or non-ferrous metals in industrial waters. Especially suited for closed loop systems and hydration.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-644 Corrosion Inhibitor for Brines
Corrosion inhibiting additive for ferrous and non-ferrous metals for water containing inorganic salts, including chlorides.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes or bulk.

VpCI-645 Marine Usage Corrosion Inhibitor
A non-toxic, biodegradable concentrate designed to provide long-term effectiveness in fresh water, salt water, brine and other highly corrosive solutions containing dissolved sulfide and halogens.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-646 Ambiody Water Treatment System
Water soluble treatment for cooling and industrial process water systems against corrosion, scale and fouling. Environmentally safe. Open and recirculating loops corrosion and scale inhibitor.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

VpCI-647
Corrosion and scale inhibitor liquid concentrate for use in open recirculating cooling water systems.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.
**VpCI-649 Liquid/Powder for Multimetals**
Water soluble inhibitor for multimetals. Recommended for closed loop cooling systems. Effective at low dosages. Also available in powder form. Corrosion inhibitor for cooling systems.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

**VpCI-658 Undercoating for Insulated Surfaces**
A liquid inhibitor for corrosion, protection of metal surfaces covered with thermal insulation. Able to be injected into insulation that is already in place to protect the metal underneath.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

**VpCI-705 Fuel Additive**
Corrosion preventive additive for gasoline, diesel, gasohol mixtures and alcohol fuels that also works as fuel stabilizer and water emulsifier. Soluble in both methanol blends as well as neat methanol fuel or neat gasoline. Approved by General Motors Corporation (approval #1066180 GM EMD Division).

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

**VpCI-812 Wax Paste**
Long lasting, high shine wax and rust blocker containing new, high performance VCIs. Protects against UV rays, oxidation and stripping baths, as well as for conventional solvent cleaning/degreasing systems.

**Package:** 16 oz. (4.7 liter) bottle, 5 quart (4.7 liter), 5 gallon (19 liter) pails.

**VpCI-819 Wax/Rinse**
Wax/Rinse emulsion with corrosion inhibitors. Available as a concentrate or diluted. Protects against UV rays, oxidation and corrosion.

**Package:** 16 oz. (4.7 liter) pump spray bottle, 5 quart (4.7 liter) and 5 gallon (19 liter) pails.

**VpCI-1238 Liquid Additive for Vapor Degreasers, Cleaning, and Stripping Baths**
Liquid concentrate additive boosts protection for ferrous and some non-ferrous parts processed in vapor degreasing, cleaning and stripping baths, as well as for conventional solvent cleaning/degreasing systems.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

**MCI® Coating for Rebar**
MCI coating for rebar: provides protection for embedded rebar and during storage.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

**MCI® Film**
Black PE film designed for use in the construction industry as a vapor barrier. Provides corrosion protection and UV protection.

**Package:** Standard and custom sizes.

**MCI® Grenade**
Migratory Corrosion Inhibitors™ packaged in water-soluble PVA bags. One grenade adds corrosion prevention to one cubic yard (0.76 m³) of concrete.

**Package:** 1 bag (500 g) per box.

**MCI-1999/2000 Migrating Corrosion Inhibiting Admixture for Concrete, Patented**
Used to prevent corrosion of rebar in concrete. To be added to concrete mix. Conforms to ASTM G-109.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

**MCI-2001/2002 Admixtures, Patented**
MCI-2001 is a powdered form of MCI-2000. MCI-2002 is a slurry form of MCI-2000, with the added benefit of microsics. Both are Migratory Corrosion Inhibitor and concrete admixtures.

**Package:** 2001—50 lb. (22.7 kg) pails and 100 lb. (45.4 kg) drums. 2002—5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

**VpCI-2023 Passivating Grout**
Two component cementitious coating for exposed reinforced bars and other steel structures. Contains MCI® molecules.

**Package:** Powder: 26.4 lb. (12 kg) buckets. Resin: 11 lb. (5 kg) pails.

**VpCI-2025 Primer**
Two-component primer for Cortec’s MCI-2025 elastomeric coating.

**Package:** Component A is available in 55 pound (25 kg) bags Component B is available in 22 pound (10 kg) pails.

**VpCI-2028 Finish Repair Mortar**
Two component fiber reinforcing finish repair mortar containing Migrating Corrosion Inhibiting™ additives.

**Package:** 5 lb. (2.5 kg) bags, 11 lb. (5 kg) pails.

**VpCI-2039 Concrete Repair Mortar**
Two component, fiber reinforced repair mortar. Excellent adhesion properties, vapor transmission qualities. Can be used for any type of concrete repair. Contains MCI® additive.

**Package:** 5 lb. (2.5 kg) bags, 11 lb. (5 kg) pails.

**VpCI-2050 Release Agent**
Water based release agent that prevents “build-up” of concrete, asphalt, dirt and other debris on concrete forms or other construction equipment while preventing corrosion of metal surfaces.

**Package:** 5 gallon (19 liter) pails and 55 gallon (208 liter) drums.

**VpCI-2060 Concrete Cleaner/Degreaser**
Cleaner/degreaser combined with Migratory Corrosion Inhibitors™ to protect, clean and degrease concrete structures.

**Package:** 5 gallon (19 liter) pail and 55 gallon (208 liter) drums.

**MCI® Architectural Coating**
MCI® containing water-born sealer/coating for all reinforced, pre-cast, pre-stressed, post-tensioned or marine concrete structures. Can be applied to the concrete and/or used as a rebar coating.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

**Boiler Lizard®, patented**
Vapor Corrosion Inhibitor (VpCI®) powder in a polyvinyl alcohol (PVA) water-soluble bag designed for dry lay-up of boilers.

**Package:** Carton tubes (1 bag per tube).

**Closed Loop Toad®, patented**
Vapor Corrosion Inhibiting (VpCI) powders in polyvinyl-alcohol (PVA) water-soluble bags developed for seasonal, short or long-term lay-up.

**Package:** Four 2.2 lb (1 kg) bags per box.

**Cooling Loop Gator®, patented**
Vapor Corrosion Inhibitor (VpCI) powder packaged in polyvinyl-alcohol (PVA) water-soluble bags developed for seasonal, short or long-term lay-up.

**Package:** Four 2.2 lb (1 kg) bags per box.

**Corcaps™ VpCI Protective Covers**
Elastic seal on to VpCI 126 or EcolWeave to create a “cap” that protects exposed brake assemblies on vehicles. Excellent protection and easy application. Can be sewn from 1” (2.5 cm) diameter to over 24” (60 cm) diameter.

**Package:** Custom sizes.

**Cort-Lube® VpCI Enhanced Lubricating Grease**
Thixotropic grease with extreme pressure (EP) properties formulated for corrosion protection of metals exposed to severe environments.

**Package:** 14.5 oz. (43 liter) cartridges, 5 gallon (19 liter), 55 gallon (208 liter) drums.

**Cort-Lube™ Hydraulic fluid**
Synthetic lubricating oil for automotive brakes, machine tools, pumps, bearings, etc. Provides excellent corrosion protection.

**Package:** 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.
CorrLube® Industrial Gear Oil
Synthetic lubricating oil, used for a wide range of opened and closed gear sets. Provides excellent corrosion protection. Package: 16 oz. (0.47 liter) bottles, 5 gallons (19 liter) pails, 55 gallons (208 liter) pails.

CorrLube® VPCI Motor Oils
Automotive engine oils with VPCI protection. Grade SAE 10W-30 and 15W-40. API certified. Package: 1 quart (.94 liter), 5 gallons (19 liter) pails, 55 gallons (208 liter) drums, liquid totes and bulk.

CorrNetting®
CorrNetting is extruded (non-woven) from the highest quality PE resin and Cortec multimetal VPCIs. Offers very effective packaging, which combines physical protection, cushioning and multimetal corrosion protection for sensitive mechanical parts and other sensitive materials. Package: Available in a variety of different mesh and diameters, in tubular form or in flat sheeting.

Cor-Pak® VPCI Bubbles, Patented

Cor-Pak® VPCI Static Dissipative Bubbles
Packaging bubbles provide cushioning VPCI protection while preventing triboelectric charge generation. Package: Available in custom size rolls.

Cor-Pak® VPCI Cold Seal Film
Cohesive system with VPCI protection. Available in paper and polyethylene. Sticks firmly and only to itself. Conforms to MIL-PRF-22019D, Type II. Package: Custom size roll stock.

Cor-Pak® VPCI Corrugated PE Sheet
FDA approved, 100% recyclable packaging material. Easily fabricated into boxes, containers and custom totes. Package: Available in custom size sheeting.

Cor-Pak® Cushioning Film
VPCI high density film laminated onto a closed cell foam for cushioning protection. Excellent for protecting vulnerable parts from physical damage and corrosion. Package: Custom sizes.

Cor-Pak® VPCI Film

Cor-Pak® VPCI Liner Film
Exceptionally light (18 microns) and strong HDPE film for physical protection, cushioning and non-ferrous metal. Excellent barrier. 1 mil (25 micron). Package: Standard and custom size roll stock and sheeting.

Cor-Pak® VPCI Pipe Strip
Low density, polyethylene rod containing VPCI designed for protection of ferrous and non-ferrous metals and alloys. Package: 500 ft. (152 m) of .25” (6.35 mm) diameter strip wound on a spool.

Cor-Pak® 1 MUL Breathable Pouches, Patented
Tyvek® breathable membrane filled with multimetal VPCI (1-MUL). For applications where powder contamination is not acceptable. GSA 0800102018769 Package: 300 per carton.

Cor-Pak® VPCI Stretch Film, Patented

Cor-Pak® VPCI Coconousing Stretch Film
Multi-layer film. Designed for maximum strength and holding force with Superior Corrosion protection. Conforms exceptionally well to the curvature of the product with extra tear resistance. Developed particularly for low cost procedure to wrap metal coils in rolling position with eye horizontal. Package: Standard and custom roll stock.

Cor-Pak® VPCI Tablets
All purpose VPCI for multimetal applications. Insert into packages. Nontoxic, non-polluting, for non-ferrous and ferrous metals. Meets M4-22110 Package: 1000 per bottle, 4 bottles per carton.

Cor-Pak® VPCI Tunnel Shrink Film
Specially designed thin gauge VPCI film for automated tunnel shrink film applications. Excellent corrosion protection for automated parts protection. Package: Custom sizes.

CorShield® VPCI Gold
A brilliant true gold colored water based coating. Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

CorShield® VPCI Stripable Coating
Water-based, non-flammable, temporary stripable coating which is available in clear and colors. Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

CorShield® VPCI Packaging Fabric
CorShield®, patented, is a multi-layered protective fabric with a non-woven, soft inside layer. CorShield® is made from low-density polyethylene tapes, a high-density coating and is extrusion laminated. Package: Standard and custom sizes available.

CorShield® VPCI Transit Coating
Water-reducible concentrate for transit protection of painted and unpainted surfaces. Package: 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

Corrosorber™
Scavenges corrosive gases from the atmosphere, providing passive protection against corrosion, oxidation and rust. Package: 10 individually wrapped cartridges per carton.

Corwipe® 500 Heavy Duty Cleaner, Degreaser, Anti-stat & Protectant Wipe, Patented
Multi-purpose wipe cleans while leaving behind a protective antistatic and VPCI film. Removes oil, grease and light rust. Based on strong Dupont® Sontara® non-woven fabric. Wipes are 8” x 10” (20.3 x 25.4 cm), folded into 5” x 11” (12.7 x 29.7 cm) pouches. Package: 144 per carton (12 wipes per pouch, 12 pouches per carton).

EcoAir™ VPCI-324
Sprayable lubricant, non-flammable and contains no CFCs. H-1 rating and contains bacteriostatic preservative. Non-flammable. Package: 12 oz. (360 g) cans, 12 per case.

EcoAir™ VPCI-337

EcoAir™ VPCI-414

EcoAir™ VPCI-423
Water-based, non-toxic rust remover. Offers multimetal protection while removing rust. Non-flammable. Package: 14 oz. (397 g) cans, 12 per case.

EcoClean® VPCI-416
A non-toxic liquid to remove heavy hydrocarbons, grease and machinery oils. Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoClean® VPCI-423
Therapeutic liquid uses natural organics to remove rust, scale and oxides. Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoClean® VPCI-433
Removes graffiti, inks, paints from metal, concrete and wood. Package: Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoClean® Silver and Gold Cleaner
VPCI enhanced silver and gold polish for electrical contacts, jewelry and silverware. Package: 16 oz. (453 gram) jars, 6 per carton.

Eco-Corr® Film
Fully biodegradable (per ASTM D 5338), aliphatic polyester film, utilizing Cortec’s patented VPCI technology. Package: Standard and custom roll stock.

EcoFilmm™

EcoLine™ All Purpose Lubricant
VPCI lubricant based on soybean methyl esters and designed for industrial, shop and home use. It contains a friction modifier and extreme pressure additive. Provides excellent corrosion protection. Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

EcoLine™ Bearing, Chain and Roller Lube
This is a ready-to-use high quality rust preventative lubricant, formulated with American grown natural soya seed oil, which surpasses the lubricity performance levels of most conventional petroleum-based lubricants. Package: 16 oz. (0.47 liter) bottles, 1 gallon (3.7 liter) pails, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

EcoLine™ Cleaner/Degreaser
Heavy-duty, water-dilutable cleaner/degreaser for tough cleaning jobs in industrial and commercial applications based on soybean methyl esters. Provides temporary corrosion protection. Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

EcoLine™ Cutting Fluid
Multifunctional biodegradable concentrate based on soybean methyl esters for metal cutting operations. Provides excellent corrosion protection. Package: 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

Surface Preparation Product
Concrete/Construction Products
Raw Products
EcoLine™ Food Machinery Lubricating Grease
This is a high-quality, corrosion inhibiting lubricant formulated with American-grown natural soya seed oil.

**Package:** 16oz (453.6g) tub, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums

EcoLine™ Heavy Duty Grease
Utilizing the latest biotechnology, this grease is an environmentally friendly replacement for traditional harmful greases.

**Package:** 14oz (396 g) cartridge, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums

EcoLine™ Rust Preventative
Biodegradable temporary coating based on soybean methyl esters, and designed for use in severe marine and high humidity outdoor and indoor environments. Provides excellent corrosion protection.

**Package:** 16 oz. (0.47 liter) bottles, 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

EcoShield® VpCI Packaging Fabric
EcoShield®, is a patented, multiple-layered protective fabric with a non-woven, soft inside layer. Can be custom sewn. Available in blue or black.

**Package:** Standard and custom sizes available.

EcoSpray® VpCI-238
Protects electrical and electronic contacts and components.

**Package:** Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoSpray® VpCI-325
Replaces oil with natural, biodegradable lubricants and corrosion inhibitors.

**Package:** Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoSpray® VpCI-389
Water-based coating to rust-proof iron, steel and aluminum.

**Package:** Dozen 16 oz. (0.47 liter) bottles per carton, also available in kits.

EcoWeave® VpCI Woven Polyethylene
Transparent VpCI film designed for use in applications where additional strength and tear resistance are required. FDA approved and recyclable.

**Package:** Custom sizes.

M-435 Coatings Additive
Water-based VpCI additive for aqueous coatings or compounds. Protects ferrous and non-ferrous metals. Prevents flash corrosion.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums.

M-529 Additive for oils and lubricants
Oil based corrosion inhibitor for lubricating oils for gasoline and diesel engines, hydraulic lubrication and other process system oils.

**Package:** 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

MilCorr™ Shrink Film
Composite film, containing the ultimate additives package; Cortec® multmetal VpCIs (Vapor Corrosion Inhibitors), and UV (ultraviolet) inhibitors to provide a top-notch universal protection system. Meets MIL-B-2209C.

**Package:** Sheetling and tubing form. Thickness from 10-12 mils (250-300 microns). Please contact Cortec for minimum quantities and specific sizes.

Safe-T Charges (VpCI-417/418/426)
Cleaners and rust remover in water-soluble bags. Safe and easy way to use powder products. Refer to individual products for descriptions.

**Package:** 1 lb (0.45 kg), 5 lb (2.3 kg) and 10 lb (4.54 kg) bags.

Re-Grip Rubber Revitalizer
Fast acting liquid cleans and revitalizes hardened and glazed rubber surfaces. Extremely effective in adding life and performance to all types of rubber, belts and for all types of items from heavy machinery to office equipment. May harm some plastics, test before use. Non-flammable.

**Package:** 1 gallon (3.96 liter) can, 5 gallon (19 liter) pails and 55 gallon (208 liter) drums.

COLOR KEY:
- VpCI Electronic Products
- VpCI Metalworking Products
- VpCI High Performance Coatings
- VpCI Packaging Products
- VpCI Water Treatment Products
- VpCI ECO Products
- VpCI Enhanced Lubricants
- Surface Preparation Product
- Concrete/Construction Products
- Rawn Products
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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.

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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.

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www.CortecVCI.com

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

CortecVCI.com and CortecMCI.com

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**Military Standards Cross Reference Guide**

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*Please inquire about other products that meet or conform to military specifications.*

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

**CortecVCI.com and CortecMCI.com**