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**Attention: Editor**

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**PRESS RELEASE**

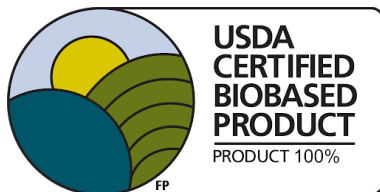


Expanded Portfolio of Sustainable, Biobased, USDA Certified, Corrosion Protection and Water Treatment Products

## Cortec® Presents New BioCortec® Brochure

Cortec® is pleased to present its newly updated BioCortec® brochure featuring an expanded portfolio of sustainable, environmentally responsible USDA Certified Biobased Products made from renewable materials. Cortec's unique assortment of biodegradable and recyclable/repulpable packaging materials, environmentally friendly spray-can alternatives to traditional aerosols, and Bionetix® biologicals make Cortec® a global leader in environmentally conscious corrosion control and industrial cleanup technology. Items qualifying as USDA Certified Biobased Products contain specific

amounts of biobased content and include products for use in cleaning and surface prep, construction,



### Sustainable Packaging Options

Cortec's sustainable packaging options include a range of biobased, biodegradable, and/or recyclable materials. Each type of packaging meets a specific need such as compostability, corrosion protection, moisture and grease resistance, and even ESD protection!

**Biodegradable and Biobased Films**

**Eco-Corr Film<sup>®</sup>, Patented**  
The first biodegradable corrosion inhibiting film. Eco-Corr Film<sup>®</sup> contains Cortec's proprietary VpCl<sup>®</sup> Technology and provides excellent contact, barrier, and vapor phase corrosion protection for ferrous and non-ferrous metals. Formulations containing up to 40% biobased content are available and can be designed to fit required properties ranging from highly elastic to semi-rigid structures. When placed in a commercial composting environment, Eco-Corr Film<sup>®</sup> will fully disintegrate within months. Eco-Corr Film<sup>®</sup> is shelf stable.

**Eco-Corr Film<sup>®</sup> ESD, Patented**  
A compostable, corrosion-inhibiting film with ESD protection to eliminate static electricity (e.g., for packaging electronics). When placed in a typical commercial composting environment, Eco-Corr Film<sup>®</sup> ESD will disintegrate within months.



**Eco Film<sup>®</sup>**  
A compostable film designed to replace non-degradable films such as traditional low density and high-density polyethylene. Provides good mechanical properties and stability. Made from resin certified by BPI (International Biodegradable Products Institute, Inc.) to be compostable in municipal and industrial composting facilities according to ASTM D 6400 (BPI certificate #B50974).



lubrication, packaging, metalworking, rust prevention, and water treatment. Through ongoing development of this specialty portfolio, Cortec<sup>®</sup> is providing a wide variety of “green” corrosion control options and promoting the use of sustainable resources for any industry that faces metal corrosion.

In addition to USDA Certified Biobased Products, the BioCortec<sup>®</sup> brochure presents a variety of sustainable packaging options. Among the many approaches to corrosion control, one of the simplest strategies is to insert VpCl<sup>®</sup> emitters into shipping containers, electrical cabinets and other enclosures to protect the metal components inside. These VpCl<sup>®</sup> foam or cup emitters release corrosion inhibiting vapors that form an invisible molecular protective layer against rust and corrosion on metal surfaces in the enclosure. For

those who want to use the “greenest” versions of these emitter technologies, BioCortec<sup>®</sup> brochure offers emitters in the form of Bio-Pad<sup>®</sup> (made from biobased non-woven material) and EcoEmitter<sup>®</sup> (biodegradable VpCl<sup>®</sup> packaged in a cup constructed from biobased resins). Cortec's EcoAir<sup>®</sup> spray technology takes the focus next. This line includes a number of Cortec's mainstay corrosion control products and some specialized cleaners packaged in environmentally friendly air-powered bag-on-valve (BOV) spray cans that are recyclable when empty. Several of these products are also biobased to maximize sustainability.

Interesting and insightful Case histories are another major part of this brochure, with summaries on the Minnesota Zoo Composting Program and the application of Cortec's EcoLine<sup>®</sup> Cutting Fluid to solve a customer's corrosion problems during storage and shipping.


The final portion of the brochure includes a completely new section on biological treatments from Cortec<sup>®</sup>

### Emitters

**EcoDevice<sup>®</sup>**  
A unique VpCl<sup>®</sup> emitting device constructed from biobased non-woven material. Adhesive backing allows easy-stick application inside tool boxes, electrical boxes, and other compartments where corrosion protection is needed. Each 3 in. x 1.25 in. (7.62 cm x 3.175 cm) device protects up to 1.5 ft<sup>3</sup> (42 L) of space.



**EcoEmitter<sup>®</sup>**  
Polymeric cup constructed from biobased resins contains fully biodegradable corrosion inhibiting powder that releases protective vapors through a breathable biobased membrane. Self-stick cup allows convenient application in enclosed spaces where corrosion protection of metals is required. Each EcoEmitter<sup>®</sup> protects 8.8 ft<sup>3</sup> (0.25 m<sup>3</sup>) of enclosed space.



**ECOAIR<sup>®</sup>**  
Cortec<sup>®</sup> packages a number of its mainstay corrosion control products and some specialized cleaners in environmentally friendly air-powered bag-on-valve (BOV) spray cans. The empty cans are recyclable.

**EcoAir<sup>®</sup> VpCl<sup>®</sup>-337 Corrosion Inhibitor**  
Ready-to-use biodegradable waterborne Vapor phase Corrosion Inhibitor that leaves a thin, self-healing film. Non-flammable. Protects void spaces such as pipe internals and double wall spaces.


**EcoAir<sup>®</sup> VpCl<sup>®</sup>-377 Multi-Metal Rust Preventative**  
Water-based replacement for oil-based rust preventatives. Forms clear, dry film. Non-flammable. Indoor dry storage of finished metal parts, castings, gears, pumps, equipment, sintered metals, bars, and roll stock.

**EcoAir<sup>®</sup> 414 Cleaner Degreaser**  
Water-based fast acting cleaner/degreaser with flash corrosion protection. Non-flammable. Removes temporary coatings, light oils, and greases.

**EcoAir<sup>®</sup> 418 LM Cleaner/Degreaser**  
Non-foaming, heavy-duty alkaline cleaner/degreaser with flash corrosion protection. Nitrate- and amine-free. Non-flammable. Removes hydrocarbons, greases, and difficult deposits.

**EcoAir<sup>®</sup> 422 & EcoAir<sup>®</sup> 423 Rust Removers**  
Environmentally-friendly biodegradable organic rust removers. Non-flammable. Removal of rust/corrosion from metal surfaces. Neutralize with EcoAir<sup>®</sup> Cleaner Degreaser.

**EcoAir<sup>®</sup> Biobased CLP**  
Multifunctional cleaner/lubricant/protectant. Contains 89% USDA certified biobased content. Non-flammable. Reduces friction and wear on machine parts. Loosens seized parts. Protects from corrosion.



\*Please verify local regulations before disposing.


biotechnology subsidiary, Bionetix® International. In today's unfortunately polluted world, many are looking for safer, more natural ways to clean up and promote the health of the environment. Bionetix®

International makes this possible through biological treatments using a variety of microorganisms and nutrients to stimulate contaminant biodegradation to promote healthier, cleaner environments in countless applications. Biologicals and biostimulants in this brochure fall under the categories of waste treatment, biological cleaners, and oil and gas cleanup solutions.

**Water Treatment**

**S-14 Bio, Patented**  
A unique green building block designed for cooling towers and other open-loop, recirculating cooling systems. It is a powerful combination of scale and corrosion inhibitors. S-14 Bio is comprised of non-toxic, non-hazardous, and readily biodegradable ingredients, mainly a low molecular weight natural polymer based on soybean oil.

**VpCI-649**  
A unique liquid concentrate that protects ferrous and non-ferrous metals from corrosive solutions. Can be used in closed loop cooling systems, dry layup of fire extinguishing systems, and hydrostatic testing. Does not contain nitrites, phosphates, or chromates. Biodegradable.



**Case Histories**

**Case History: EcoLine® Cutting Fluid**

**PROBLEM**



The customer was experiencing corrosion problems during the exporting of automotive parts using sea going containers. The end users of the bearings, bushings, and thrust washers are well-known engine producers. Time in transit from manufacturer's location in Montenegro to the engine assembly plants is typically two to four months. The traditional rust inhibiting oils, imported from Japan and Germany, did not prevent oxidation and pitting of the special aluminum alloy used to produce these high-tech engine components. This resulted in significant losses from production delays and rejected parts.

**SOLUTION**

The customer tested Cortec® EcoLine® Cutting Fluid in their laboratory with promising results. Based on laboratory tests, a pilot plant trial was initiated, which prompted the customer's decision to implement a plant-wide, full scale implementation of EcoLine® Cutting Fluid to replace environmentally unacceptable rust inhibiting oils.

**CONCLUSION AND REASON CORTEC® WAS SELECTED**

Cortec's EcoLine® Cutting Fluid solved the customer's corrosion problems during storage and shipping. The bearings, bushings, and thrust washers have shown no sign of corrosion, even after extended field testing up to twelve months. The important benefits are to be able to deliver parts that are oil free, dry to the touch, compatible with robotized assembly operations, and an extremely cost effective corrosion protection method. EcoLine® Cutting Fluid is bio-based, and enables users to demonstrate to their local community and customers their environmental sustainability and awareness.



Cortec® is excited to be releasing its updated BioCortec® brochure and announce its upcoming version in German to provide easier access to German-speaking manufacturers in search of more sustainable solutions to corrosion problems. New Croatian version will also be available soon.

Browse the updated brochure here: <https://www.cortecvci.com/Publications/Brochures/BioCortec.pdf>

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Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2004, & ISO 17025 Certified.

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