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**Attention: Editor**  
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**PRESS RELEASE**



## **Much Safer Than Muriatic Acid – Cortec® Introduces EcoClean® Scale and Rust Remover HP!**

Scale removal is an important maintenance activity on heat exchangers and other industrial water handling equipment. Over time, calcium carbonate from hard water builds up on the surfaces of pipes and heat exchangers, reducing water flow and heat-transfer efficiency. Harsh minerals and organic acids like muriatic acid are sure to solve the problem quickly but pose safety hazards due to high corrosivity. To achieve fast-



acting scale removal on a safer level, Cortec® has introduced EcoClean® Scale and Rust Remover HP, which competes with some of the safer fastest-acting products on the market.

### **Industrial Strength Scale Removal**

EcoClean® Scale and Rust Remover HP is a great industrial strength product to periodically clear away scale buildup on all water-contacting equipment surfaces in a variety of industrial systems:

- Heat exchangers
- Chillers
- Condensers
- Cooling towers
- Pipes



It also removes corrosion on multiple metal types and contains powerful corrosion inhibitors to counteract the aggressiveness of acids on metals. Immersion in the product produces the best results for most substrates and often works within five minutes to an hour, depending on the amount of scale and corrosion. Light abrasion helps speed up penetration and removal of corrosion products. Application should be followed with a neutralizing cleaner for further protection. EcoClean® Scale and Rust Remover HP has higher potency than its main market equivalent and can be used multiple times if filtered and monitored for pH after use.

### **Safety Benefits**



In addition to its scale removal abilities, the best thing about EcoClean® Scale and Rust Remover HP is its relative safety compared to other commonly used scale removal chemicals. Classified as only a mild skin irritant according to the OECD Principles of GLP (Good Laboratory Practice), EcoClean® Scale and Rust Remover HP is drastically safer than muriatic acid. However, it is still considerably fast-acting and highly effective. While

proper precautions should be taken, including the use of PPE, EcoClean® Scale and Rust Remover HP is a much better route to scale removal in terms of worker safety. Since EcoClean® Scale Remover HP is classified as non-corrosive to mild-steel, it is non-regulated for ground shipments per US DOT, a great advantage for those distributing the product.

### **Environmental and Disposal Benefits**

When using any type of cleaning product or other chemical, industries need to evaluate how it will affect their waste disposal. Companies today are faced with restrictions on specific chemicals such as phosphates, which contribute to nutrient pollution and algae growth on lakes. They also are required to stay within certain limits of BOD and COD (measurements that reflect high levels of chemical or organic waste) or face

extra fees or fines. EcoClean® Scale and Rust Remover HP has a good disposal profile on both counts. In the first place, it is phosphate free. It is also considered a biodegradable industrial descaler according to product components and is a low contributor to BOD/COD in effluents.

## Say Goodbye to Muriatic Acid

Scale removal is a necessary job, but it is *not* necessary to expose workers to muriatic acid in the process. EcoClean® Scale and Rust Remover HP is a much safer path to more efficient industrial water flow and heat transfer through effective scale removal. Contact Cortec® to get started:

To learn more about EcoClean® Scale and Rust Remover HP, please visit:

<https://www.cortecvci.com/products/surface-preparation-products/ecoclean-scale-and-rust-remover-hp/>



**CORTEC CORPORATION**  
Innovatively Safe VpCI®/MCI® Technologies

### EcoClean® Scale and Rust Remover HP

<p><b>DESCRIPTION</b></p> <p>EcoClean® Scale Remover HP is a heavy-duty scale and rust remover. It is one of the strongest etching products on the market for dissolving calcium carbonate scales, mineral corrosion inhibitors contained in industrial scale removers and pickling solutions.</p> <p><b>PACKAGING &amp; STORAGE</b></p> <p>EcoClean® Scale and Rust Remover HP is available in 5 gallon HDPE jugs. As packaged, it can be stored in high-density polyethylene, polypropylene, or fiberglass containers.</p> <p><b>For more facts, product performance, store in original packaging, remove, and get direct sunlight at 65-100 °F (15-38 °C).</b></p> <p><b>Shelf life: 2 years</b></p>	 <p><b>FEATURES</b></p> <ul style="list-style-type: none"><li>• Fast-acting scale and rust remover</li><li>• Prevents potential corrosion inhibitors to prevent flash rust</li><li>• Excellent safety profile to protect maintenance staff for scale or rust removal</li><li>• Used as a mild detergent according to the MSDS principles of our liquid cleaning products</li><li>• Biodegradable</li><li>• No VOCs</li><li>• Not contributory to BOD/COD in effluents</li><li>• Classified as non-corrosive to mild steel</li><li>• Components approved for use in Green Seal™ and GreenSource (Ecopack) products</li><li>• Components approved by the EPA as a non-hazardous ingredient in biocide applications</li><li>• Detergent-like</li><li>• Improves flow in water pipes or drainage pipes obstructed by scale</li><li>• Improves heat transfer efficiency on heat-exchanger equipment by cleaning their surface</li><li>• Non-toxic and safe for general shipment per US DOT regulations for air and marine transportation</li></ul> <p><b>TYPICAL APPLICATION</b></p> <ul style="list-style-type: none"><li>• Scale removal on oilfield casing equipment surfaces including heat-exchangers, valves, condensers, cooling towers, and pipes</li><li>• Scale removal on steel and non-ferrous</li></ul> <p><b>METHOD OF APPLICATION</b></p> <p>Apply EcoClean® Scale and Rust Remover HP in solution or spraying to the surface needing treatment, and allow contact time from 5 minutes up to 2 hours. Rinse thoroughly the treated surface with clean water. For maximum effectiveness, use warm water or compressed air to speed up the removal penetration. Proceed with a neutralizing treatment such as 10% citric acid to produce better protection.</p>
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**Keywords:** *scale remover, muriatic acid, rust removal, hard water scale, heat transfer efficiency, heat exchangers, Cortec, phosphate free scale remover, biodegradable industrial descaler, scale buildup*

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