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Attention: Editor

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PRESS RELEASE



Water-Based Corrosion Preventative from Cortec®

CorShield® VpCl®-379 - An Economical Solution That is Tough on Corrosion!

CorShield® VpCl®-379 is a water-based, economical, safe to apply, corrosion preventative liquid concentrate. It is designed for protection of ferrous and non-ferrous metals in sheltered areas, indoors, or in packages not directly exposed to rain and



Efficient application and other properties of CorShield® VpCl®-379 result in labor savings and improved health, safety, and pollution control.

outdoor elements. VpCl®-379 is designed as an environmentally responsible replacement for hazardous oil-based rust preventatives. The wide dilution range (between 5% and 50%) allows

flexibility to customize the length of protection required versus applied cost per square meter (or square foot). CorShield® VpCl®-379 provides superior protection against humidity and eliminates cleaning and housekeeping problems associated with oils.



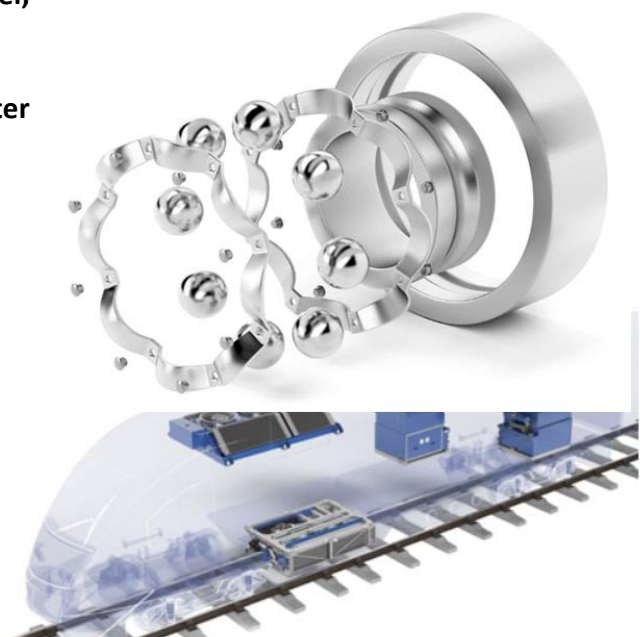
The product is readily soluble and forms a clear solution in water. It is applied to metal surfaces by spraying or dipping and forms a clear, dry film that renders an attractive appearance to protected parts. CorShield® VpCl®-379 displaces water from metal surfaces and is easy to remove, if necessary. Metals protected are carbon and stainless steel, aluminum, cast iron, and copper. Its properties and efficient application result in

labor savings and improved health, safety, and pollution control. The protective coating is clear and at ambient conditions will become dry-to-touch 30 minutes after application. VpCl®-379 is easily removed with conventional alkaline cleaners and can be coated over with paints and primers.

TYPICAL APPLICATIONS

- **Castings, forgings, tubular parts, machined and honed metal components**
- **Gears, pumps, electric motors, housings, textile and printing equipment**
- **Precision machined parts, structural steel, sintered metals, bar and roll stock**
- **Additive for parts washers and rinse water systems, and hydrotesting**

A local division of a large equipment manufacturer was struggling with corrosion from running test water through its new locomotive engine cooling systems. The division needed a way to protect the



cooling systems from corrosion during outdoor storage between different stages in the manufacturing process and later during shipping. The manufacturer also needed to keep any residual water from freezing inside the system. VpCI®-379 was chosen because of its effectiveness in use at another division of the same company for almost two decades. In addition to the product's previous success, the adoption of VpCI®-379 for this particular application also showed that it is possible to use a water-based rust preventative in freezing outdoor temperatures if proper precautions are taken.



Excellent product performance was also demonstrated when a large engine plant discovered corrosion after they test-ran their new engines for several hours. The water runoff would quickly turn into red rust. They realized this occurred because of poor corrosion prevention in their cooling water system, and they needed to find a more cost-effective

method of corrosion prevention. After draining the cooling water from the engine jacket, they flushed the VpCI®- 379 solution through the cooling jacket. This solved the problem of corrosion on new engine blocks, which remained looking new. As of January 2019, the customer was still using the product. Because of this success, another division of the same company adopted the product in 2018, adding glycol to the solution to allow engine storage outdoors in freezing temperatures.



CorShield VpCI®- 379 is listed as an item in National Stock under the number NSN 8030-01-481-8928 for ordering and use in aerospace and defense industries. It was successfully tested in accordance with ASTM D 1748, ASTM D 17356; DIN 50017, NACE RP0487-2000 and is RoHS compliant.

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