



VpCI® ADDITIVES FOR WATER TREATMENT



# VpCI®-649 N



## PRODUCT DESCRIPTION

VpCI-649 N is a unique, concentrated liquid formulation that protects ferrous and non-ferrous metals from corrosive solutions. In addition, this product is designed to provide long-term protection in fresh water and glycol closed loop systems.

VpCI-649 N is effective as a replacement for nitrite, bromate, and/or chromate-based formulations.

VpCI-649 N combines contact and volatile corrosion inhibitors along with anti-scalants in non-toxic formulation that does not contain nitrites, phosphates, chromates, or heavy metals. This product helps solve the problem of disposal, particularly for large quantities of water.

## FEATURES

- Effective for a broad range of applications to stop aggressive corrosion in systems containing fresh water, glycol coolants, etc.
- Environmentally friendly and nitrite-free
- Low concentration effectiveness provides economical treatment
- Vapor phase action provides protection to areas that contact inhibitors cannot reach
- Contains an acrylic polymer to prevent scale formation
- Readily water-soluble liquid for easy application
- Multimetal protection
- Effective in low dosages
- Does not contain free amines

## TYPICAL APPLICATIONS

- Inhibitor for closed loop cooling systems
- Fire extinguishing systems
- Inhibitor for hydrostatic testing of pipelines, casings, tanks, and valves
- Inhibitor for packer fluid applications
- Prevents water-bottom corrosion in oil storage tanks
- Alkanolamine sweeteners
- Pulp and paper process equipment
- Mines, mining, and earth moving equipment
- Inhibitor for lay-up application of cooling towers

## DOSAGE

- For closed loop operational systems start at 2,500-3,000 ppm (0.25-0.3 wt.%)
- For seasonal wet lay-up application (up to 6 months) use VpCI-649 N at a concentration of 0.5 wt.% of inhibitor by volume.
- For hydrotest and drain applications contact Cortec for dosage information.

## PACKAGING

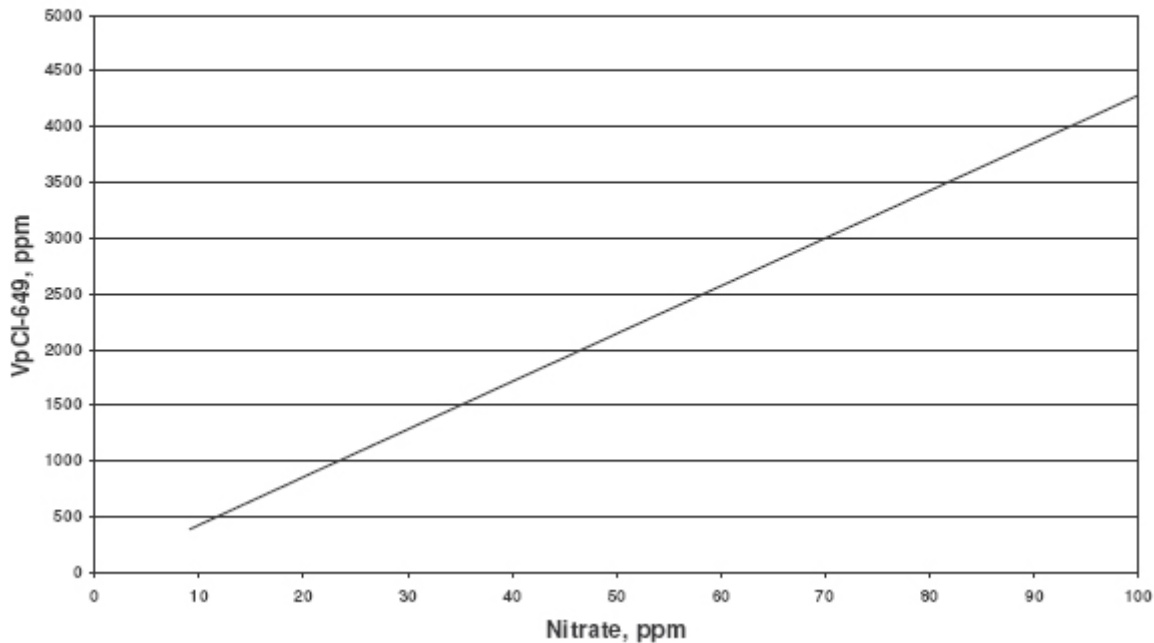
VpCI-649 N is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. The product should be stored in tightly closed containers. Shelf life is 18 months.

## TYPICAL PROPERTIES

VpCI-649 N	
Appearance	Clear amber liquid
Density	9.5-9.7 lb/gal (1.14-1.16 kg/l)
Type	Water-based
Non-volatile Content	46-52%
pH	9.1-9.6 (Neat)
BOD	2,500 mg/l
COD	7,600 mg/l



### Theoretical Concentration of VpCI-649 vs Nitrate



**FOR INDUSTRIAL USE ONLY**  
**KEEP OUT OF REACH OF CHILDREN**  
**KEEP CONTAINER TIGHTLY CLOSED**  
**NOT FOR INTERNAL CONSUMPTION**  
**CONSULT SAFETY DATA SHEET FOR MORE INFORMATION**

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