



VpCI® ADDITIVES FOR WATER TREATMENT



VpCI®-649 VpCI®-649 OF VpCI®-649 Winterized



PRODUCT DESCRIPTION

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

VpCI-649 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.

VpCI-649 is also available in a cold weather version for the convenience of storage in cold temperatures.

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

- 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 at a concentration of 0.5 wt.% of inhibitor by volume.
- For hydrotest and drain applications contact Cortec for dosage information.
- For systems already using Molybdate, please use VpCI-649 OF which does not contain tracer.

PACKAGING

VpCI-649 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

Appearance	Amber Liquid
Density	9.5-9.7 lb/gal (1.14-1.16 kg/l)
Type	Water-based
Non-volatile Content	43-49%
pH	9.1-9.6 (Neat)
Freeze point	7-10°F (-17-12°C)

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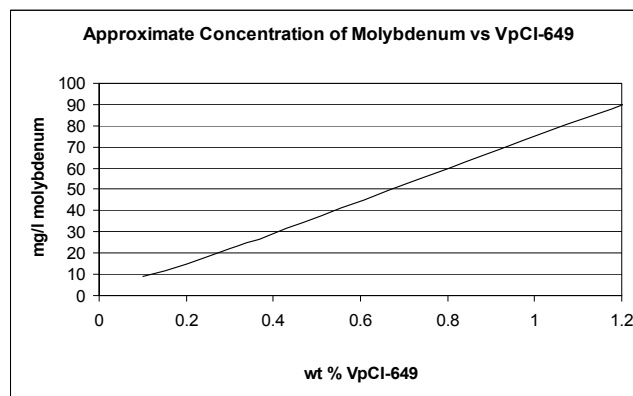
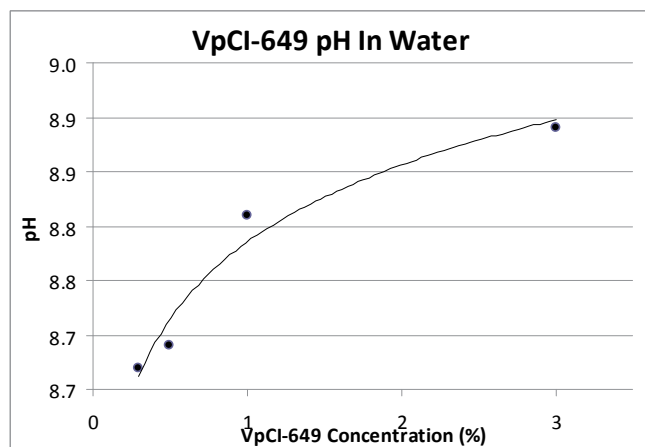
Density	9.3-9.7 lb/gal (1.11-1.16 kg/l)
Non-volatile Content	43-48%
pH	8.8-9.4 (Neat)



VpCI-649 Winterized

Carrier	Water + Ethylene glycol
Freeze point	-41.8°F (-41°C)
Non-Volatile Content	59-63
Density	9.3-9.7 lb/gal (1.11-1.16 kg/l)
pH	9.1-9.6 (neat)

Acute Toxicity Testing Results for VpCI-649 Winterized		
Species	Test Time (hours)	LC ₅₀ (ppm)
Fresh Water		
M. beryllina	48	1460
M. bahia	48	1240
Salt Water		
D. pules (water fles)	48	2240
D. promelas (flat headed minnow)	48	2400



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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