



## VpCI® ADDITIVES FOR FORMULATORS

# Cooling Loop Gator® Patented VpCI™ Tower Lay-up/Mothballing



### PRODUCT DESCRIPTION

Cortec's Cooling Loop Gator is a Vapor phase Corrosion Inhibitor (VpCI) powder packaged in polyvinyl-alcohol (PVA) water-soluble bags. Developed for seasonal, short or long term lay-up, Cooling Loop Gator protects enclosed spaces for up to 12 months. Once the bag and powder dissolve, the VpCIs adsorb on all metal surfaces - reaching even recessed areas and interior cavities. The VpCIs form a strong molecular layer on the metal that protects in the liquid phase and vapor phase.

### FEATURES

- Provides excellent corrosion protection during lay-up period
- Can be used as a corrosion inhibitor additive in the majority of water treatment programs
- Provides multimetal protection, including galvanized steel and yellow metals (copper, brass)
- Protects inaccessible and recessed surfaces
- Does not need to be removed prior to start up

- Eliminates environmental hazard and disposal problems
- Safe and easy to handle
- Fully biodegradable, non-toxic and non-irritating
- Effective for wet lay-up and flushing applications
- Reduces chemical consumption and cost upon start up
- Easy to apply
- Increased worker productivity and safety
- Nitrite-, phosphate-, and chromate-free
- Compatible with the majority of commercially available biocides and antiscalants

### METHOD OF APPLICATION

One Gator treats up to 250 gallons (0.95 m<sup>3</sup>) water. Remove and discard outer barrier bag. Add the water-soluble bags directly into cooling water. Recirculate treated water for about 10-12 hours to obtain good protective layer before shutdown. Either drain the water out (flushing lay-up) or leave treated water in cooling tower. After application, all internal surfaces should be covered or closed and valves shut off.

### COMPATIBILITY

Cooling Loop Gator is compatible with most materials of construction in cooling towers (e.g. rubbers, polymers, etc.). Cooling Loop Gator is effective in the:

- Presence of non-oxidizing biocides
- Presence of oxidizing biocides\*

Please consult a Cortec representative for further information before use with biocides.

\*Keep free halogen concentration less than 2 ppm. When using a high concentration level of oxidizing biocides, consult Cortec about dosages.



**DIMENSION**

Bag 10" x 14" (25 cm x 35 cm)

**PACKAGING AND STORAGE**

Cooling Loop Gator® is available in 4 x 2.2 lb (4 x 1 kg) bags per box. Store in sealed container in a dry and cool warehouse. Do not store in conditions above 150°F (66°C).

**PHYSICAL PROPERTIES OF POWDER**Appearance White to off-white powder  
pH 8.5-9.5 (1% aqueous)**EPA/600/4-90/027F**

Meets EPA requirements for discharge in freshwater in used concentration.

**48-hour Static *D. pulex* and *P. Promelas* Toxicity Test (fresh water):**

EE#	Appendix	Sample ID	NOEC/LOEC, ppm	
			<i>D. pulex</i>	<i>P. Promelas</i>
E-17766-01	A	Cooling Loop Gator®	10,000/>10,000	10,000/>10,000

**CONDUCTIVITY CHART**

Sample	Concentration	Conductivity with DI water	Conductivity with RO water
Gator	250 ppm	~136 µS	~140 µS
Gator	500 ppm	~259 µS	~264 µS
Gator	1000 ppm	~498 µS	~500 µS
DI water	N.A.	~3 µS	N.A.
RO water	N.A.	N.A.	~6µS

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

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