



VCI FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

gas oil
brine

VCI-649 / VCI-649 T

PRODUCT DESCRIPTION

VCI-649 and VCI-649 T are unique, concentrated liquid formulations that protect ferrous and non-ferrous metals from corrosive solutions. In addition, these two products are designed to provide long-term protection in fresh water, steam and glycol closed loop systems.

VCI-649 T contains a traceable polymer and provides excellent protection in hard water.

VCI-649 and VCI-649 T are effective as replacements for nitrite/chromate-based formulations.

VCI-649 and VCI-649 T combine contact and volatile corrosion inhibitors along with anti-scalants in non-toxic formulations that do not contain nitrites, phosphates, chromates or heavy metals. Being environmentally safe, these two products help 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
- VCI-649 T contains traceable polymers that are monitored through the use of Optidose™ 8 traceable polymer test kit by Rohm and Haas

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

METHOD OF APPLICATION

VCI-649 should be added at 0.1% (1,000 ppm) by volume.

VCI-649 T should be added at a concentration level of 0.2% (2,000 ppm) by volume.

For seasonal lay-up application use VCI-649 at a concentration of 0.2-0.5% of inhibitor by volume or use VCI-649 T at a concentration of 0.4% by volume.

PACKAGING

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



TYPICAL PROPERTIES

VCI-649

Appearance	Clear amber liquid
Density	9.1-9.3 lb/gal (1.09-1.11 kg/l)
Type	Water-based
Non-volatile Content	41-46%
pH	9-10 (Neat)
BOD	2,500 mg/l
COD	7,600 mg/l

VCI-649 T

Appearance	Clear amber liquid
Density	9.1-9.2 lb/gal (1.09-1.10 kg/l)
Type	Water-based
Non-volatile Content	42-47%
pH	9-10 (Neat)
BOD	2,500 mg/l
COD	7,600 mg/l

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

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printed on recycled paper  10% post consumer

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