



VCI FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

gas oil
brine

VCI-645

PRODUCT DESCRIPTION

VCI-645 is a unique, concentrated formulation that protects ferrous and non-ferrous metals from corrosive solutions containing chlorides. The product is designed to provide corrosion protection in fresh water, salt water, brine and other highly corrosive solutions containing dissolved halogens.

As a concentrated formulation, VCI-645 offers low dosage effectiveness as a treatment for a wide variety of marine and process applications requiring economical corrosion inhibition for fresh and salt water.

VCI-645 is effective as a replacement for nitrite- and chromate-based formulations and hydrazine-based oxygen scavengers. It does not contain nitrites, phosphates, chromates or heavy metals. Being environmentally safe to use, VCI-645 helps solve the problem of disposal, particularly for large quantities of water.

FEATURES

- Provides effective corrosion protection against aggressive attack from high chloride solutions.
- Effective for a broad range of applications to stop aggressive corrosion from fresh and salt water, brine, chloride and other dissolved halogens.
- Biodegradable, environmentally friendly and nitrite- and amine-free.
- Low concentration effectiveness provides economical treatment.
- Multimetal protection.
- Readily water-soluble liquid for easy application. Solubility is not affected by pH range and salt concentration levels.

TYPICAL APPLICATIONS

- Closed circuit cooling and heating systems containing brine solution or water.
- Ballast tanks containing salt water.
- Desalination plants.
- Inhibitor for packer fluid applications.
- Prevents water-bottom corrosion in oil storage tanks and ballast tanks of ship and offshore platforms.
- Wet lay-up of boilers, pipelines, vessels, etc.
- Alkanolamine sweeteners.
- Pulp and paper process equipment.
- Mines, mining and earth moving equipment.
- Fertilizer plants and equipment.

METHOD OF APPLICATION

To provide corrosion inhibiting levels of above 95%, add VCI-645 to:

Cooling/Heating Systems:

- 0.75% by volume when the concentration level of chlorides is >3% weight.
- 0.25% by volume when the concentration level of chlorides is less than 3% weight.

TYPICAL PROPERTIES

Appearance	Dark brown liquid
Density	10.0-10.4 lb/gal (1.19-1.24 kg/l)
Non-volatile Content	37-40%
pH	9.5-10.5 (Neat)

PACKAGING AND STORAGE

VCI-645 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk. The product should be stored in a tightly closed container. Shelf life is 12 months.

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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