



VpCI™ ADDITIVES FOR COATINGS, FLUIDS, ADHESIVES AND PLASTICS

M-645



PRODUCT DESCRIPTION

M-645 is a newly developed corrosion inhibitor additive for corrosion induced by seawater or brine. M-645 is a highly surface active concentrate, which will displace water containing chlorides from the metal surface, is then adsorbed forming an oily protective film on the metal. This film is the most uniform when it is applied in conjunction with an oxygen scavenger.

One of the biggest advantages of using M-645 as an additive to seawater, is that the discharged water contains a much lower concentration of M-645 than originally added, due to the adsorption of the protective oily film to the metal surface. M-645 will provide long term protection.

M-645 is extremely economical in its application in comparison with traditionally utilized inhibitors. M-645 also protects from atmospheric corrosion when added to an oil carrier or applied at the metal surface neat.

FEATURES

- Provides multimetal protection from atmospheric corrosion
- Effective for a broad range of applications to stop aggressive corrosion from fresh and saltwater, brine, chlorides, and other dissolved halogens
- Biodegradable, environmentally friendly, and nitrite/amine-free
- Generally safe for discharge in seawater at recommended concentration
- Provides economical treatment
- Not affected by pH range and salt concentration levels
- Compatible with majority of metal and vegetable oils

TYPICAL APPLICATIONS

- Ballast tanks containing seawater
- Hydrotesting of pipelines / vessels

METHOD OF APPLICATION

- General surface treatment - spray, dip, or brush surfaces to be protected at a rate of 600 ft²/gal - 900ft²/gal (14.7-22 m²/L)
- Recommended to be used with an oxygen scavenger during long term storage

EXAMPLE OF INSTALLATION FOR PROTECTION OF BALLAST TANKS

Pump down after pressure washing and removing all foreign materials from the bottom. Use 600-900 sq. ft. per gallon (14.7-22 m²/L) of M-645 concentrate as a basis to get the required amount. Pump the required amount of M-645 into the tank and fill with water. This will float the M-645, coating every square inch of the tank's interior including ring stiffeners, girders, piping, and side shell with a sufficient amount of product to protect against corrosion. Now that the tank is protected the water may be pumped to the normal ballasted level.

TYPICAL PROPERTIES

Appearance	Clear brown to amber liquid
Non-volatile content	80-85%
Removal Method	Petro Solvents / Alkaline cleaners (VpCI™-414/416/419)
Density	7.5-7.7 lb/gal (0.90-0.92 kg/l)

PACKAGING AND STORAGE

M-645 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk.

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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