

# BALLASTGUARD CIP CLEANER 25 LTR

Product group: 651      Product number: 779210

NALFLEET™ BALLASTGUARD CIP CLEANER is an effective environmental friendly cleaning product based on specialised dispersant and citric acid. The product is designed to remove scale and iron rust. BallastGuard CIP Cleaner is designed to be used for Ballast Water System cleaning-in-place (CIP) cleaning Prefilter/filter cleaning and other related applications.



## Product information

### Features

- \* Environmental friendly cleaning product (biodegradable, low toxicity, low bio-accumulation, phosphate free, non-marine pollutant)
- \* High performance citric acid based scale remover with enhanced dispersing performance
- \* Low foaming formulation
- \* Suitable for use as CIP cleaner for Both Ballast Water UV and Electro-chlorination type system and as cleaner for filter/prefilter
- \* Can be used for manual cleaning
- \* Cost effective liquid based product supplied in 25L

### Benefits

- \* Superior cleaning action for removal of scale and metal oxide
- \* Improved solubility and dispersing activity to reduce precipitation and redeposition
- \* Safer handling and less hazardous as compared to other strong acids such as sulfuric and hydrochloric based cleaners
- \* Easier to use as compared to solid products, eliminate solubility related issue

## Specification

### General

Invent Hazard Material (IMO/IU) classification	C-34
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### Physical properties

Appearance	Clear/Light Yellow
Density [g/ml]	1.13
Form	Liquid
pH	1 to 2

## Documents

[SDoC and MD for IHM](#)

## Directions for use

### A. Filter Element/Prefilter

#### I. Preparation:

1. Prepare BallastGuard CIP Cleaner at 1:20 ratio ( 1L: 20L Demin/Distilled/RO grade water/potable water)
2. The pH value will be app. pH 2 ~ 3
3. Use pH paper or pH pen to measure on the solution prepared
4. Pre-rinse the filter to remove any contaminant (dirt, mud, sand, shells, etc) prior using the cleaning solution for more effective cleaning.
5. Clean the screen/filter with pressure washer from the outside surface.

#### II. Acid Cleaning:

1. Cleaning be done by spread, dip or spray for 1 ~ 4 hours depending on the degree of scaling appearance.

- 2. Rinse off/spray with running hot water (at least 60°C) until complete neutralization (pH=6.5- 7.5). Check the wash water pH.
- 3. Blowdry the filter element/pre-filter with instrument air/compressed air.
- 4. Inspect the filter element externally for cleanliness.
- 5. If needed, repeat the cleaning step but reduce the cleaning spread, dip or spray to 30 mins
- 6. Note: Recommend to follow cleaning instruction from equipment OEM if available.

**B. CIP Cleaning:**

**I. Preparation:**

- 1. Prepare BallastGuard CIP Cleaner at 1:20 ratio ( 1L: 20L Demin/Distilled/RO grade water/potable water)
- 2. The pH value will be app. pH 2 ~ 3
- 3. Use pH paper or pH pen to measure on the solution prepared

**II. CIP Cleaning:**

- 1. Fill the CIP cleaning tank with the prepared cleaning solution
- 2. Follow CIP Cleaning instruction based on CIP Equipment package

Note: Follow cleaning instruction from equipment OEM if available