



Quality Chemicals  
with  
excellent performance

## APEX CHEMICALS

### APEX-122

### METAL BRIGHTENER

- Effectively removes rust, rust stains and copper stains from metal, paint works and wooden deck.
- Passivates steel surfaces prior to painting.
- Brightens copper, brass and aluminium.
- Contains surfactants and wetting agents for increased efficiency.
- Rinses freely from treated surfaces.
- Approved by IMO

#### PRODUCT DESCRIPTION:

Apex-122 METAL BRIGHTENER is a mild acidic liquid cleaner containing phosphoric acid, wetting and penetrating agents, which is miscible with water in all proportions. It contains a biodegradable surfactant and penetrating agent which easily penetrates oxide deposits and oily films on metal surfaces.

Apex-122 METAL BRIGHTENER is used for the removal of rust and rust stains, decolourisation from stainless steel and tarnish from copper, brass and other non-ferrous metals.

Apex-122 METAL BRIGHTENER can also be used on rust stains and copper stains from bulkheads, paint works and wooden decks etc. It should not be used for the cleaning of galvanized, zinc or tinned surfaces. Apex-122 METAL BRIGHTENER tends to have some light etching effect on aluminium, zinc or diecast alloys. However, light etching on the metal surface is actually an advantage as it improves the bonding of paint.

#### DIRECTIONS FOR USE

Always remove the loosest rust and scale prior to applying Apex-122 METAL BRIGHTENER. A preliminary cleaning is recommended if the surface to be treated is painted or coated with oil, grease or fat. Apply Apex-122 METAL BRIGHTENER by brushing or spraying and allow to soak for 15 - 20 minutes. The surface or items to be cleaned must be moist with the acid cleaner all the time.

For smaller articles, use the diluted Apex-122 METAL BRIGHTENER solution if a tank is available. Heating the solution naturally speeds up the process. Once rust is being dissolved, remove and rinse with a very dilute solution of Apex-122 METAL BRIGHTENER. For surfaces to be painted later, flushing is not necessary. The surface will have an increased adhesion to primer coat after drying.

On large structures, use a concentration of one part of Apex-122 METAL BRIGHTENER with 4 to 6 parts of cold fresh water. Apply using brushing or swabbing on and leave it to react overnight. The dried rust deposit can easily be tapped or scrubbed off with a foundry brush on the next day. In stubborn cases, it may be necessary to repeat the treatment. Finally, rinse the surface down with clean water.



**Approval:** The composition meets the criteria for not being harmful to the marine environment according to MARPOL Annex V and may be discharged into the sea when used to clean cargo holds and external surfaces on ships.

**PHYSICAL PROPERTIES**

Appearance	: Clear
Relative Density	: 1.20 – 1.30
Form	: Liquid
pH	: <1

**Packaging** : Supplied in 25 litres non-returnable containers.

**Important information:**

Apex chemicals Safety Data Sheets are available. Safety Data Sheets contain health and safety information for proper products handling procedures to protect your employees. Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using.

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