

Quality Chemicals with excellent performance

## **APEX CHEMICALS**

### **APEX-101 ECO ACID**

APEX-101 ECO ACID is an excellent Tank Cleaner for removing: Oxides, Chlorides, Nitrates, Amides, Amines and other salts.

- Dissolves Calcium
- · Acid Free
- · Non-Caustic, Non Alkaline
- Removes lime deposits that can occur after hot seawater washing
- · Descales heat exchangers
- · Neutralises with water
- Biodegradable, non-flammable.
- Excellent tank cleaner / brightener

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#### DESCRIPTION

APEX-101 Eco Acid is the most effective lime cleaner and descaler ever developed. APEX-101 Eco Acid replaces the conventional hydrochloric acid based cleaner and dissolves nearly 15% more cement than Hydrochloric acid.

With our cutting edge formulation, *APEX-101* Eco Acid delivers more powerful cleaning than hydrochloric acid while remaining non-corrosive, non-regulated and most importantly safe for humans and the environment.

#### **APPLICATIONS**

Suitable to remove oxides, chlorides, nitrates, amides, amines and other salts, neutral and alkaline contaminations like calcium chloride, calcium nitrate, ammonium nitrate, alkenylamide, alkenylamideoleylamine, calcium carbonate, etc. *APEX-101* Eco Acid is suitable for removing lime deposits after hot seawater washes.

Above residues are most common after loading many cargos included in ANNEX II - IMO Guide lines for tank cleaning.

APEX-101 Eco Acid can also be used to descale cooling system, heat exchangers, boilers and any equipment that tends to build up calcium deposits.

## **DIRECTIONS FOR USE**

### TANK CLEANING

- 1.Mix solutions of *APEX-101* Eco Acid either in Tank bottom or void space.
- 2.Dilution rate with water between 4 % and 10 %, depending upon light or heavy contamination. Recent experience has shown that a 8 % - 8.5 % solution secures successful cleaning.
- 3.Do not use the entire quantity of *APEX-101* Eco Acid in one solution for all tanks to be cleaned.
- 4.It is recommended to use 2 3 drums of *APEX-101* Eco Acid for cleaning the last 25% of the tanks.
- 5. The solution may be used at an ambient temperature, however it is suggested that increasing the cleaning temperature to 60 °C will enhance the cleaning ability and shorten the cleaning time.



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- 6. Proceed to recycle the cleaning solution through the tank washing system for a period of two hours minimum per machine drop. Usually a cleaning time of 4 hours per tank will prove sufficient.
- 7. Upon completion of chemical application, begin wash down with water, using maximum pressure available.

8.Inspect tank surfaces and if there are remaining stains, spot clean with undiluted APEX-101 Eco Acid directly on the stained area. Allow a reaction time of 30 minutes and rinse off with fresh water.

APEX-101 Eco Acid may be also used by injection or recirculation in the tank wash system to remove fresh rust from mild steel cargo tanks.

# GENERAL CLEANING

Always remove the loose rust and scale prior to applying *APEX-101* Eco Acid. Apply *APEX-101* Eco Acid by brushing or spraying and allow the chemical to work for 15 - 20 minutes. The surface or items to be cleaned must be moist with *APEX-101* Eco Acid at all time.

On large structures, use a concentration of one part of *APEX-101* Eco Acid with four to six parts of cold 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.







