

## DESCRIPTION

DESCALE-IT is a liquid acid used to remove scale and corrosion deposits from heat exchanges and piping systems. The use of DESCALE-IT eliminates costly downtime and expensive manual descaling. The inhibitor contained in DESCALE-IT prevents serious attack of the base metal after removal of heat exchanger deposits is complete. DESCALE-IT is recommended for descaling boilers, evaporators, condensers, heaters and coolers.

DESCALE-IT is suitable for use in cargo hold cleaning on dry bulk carriers for removal of certain residues, including cement. Refer to the Drew Marine Bulk Carrier Guide for Cargo Hold Cleaning or contact your representative for more information.

## APPLICATION & USE

For general descaling of heat exchanger units, boilers, evaporators, etc., add 200 liters of DESCALE-IT per ton of cleaning capacity. The solution should be heated to 54° C for best results. Circulate the solution through the heat exchanger by use of a pump, or agitate the solution by bubbling steam or air through the exchanger. If steam is used for agitation, the steam should be discontinued when the temperature of the solution reaches 71° C. Higher temperatures reduce the effectiveness of the inhibitor. The system should be ventilated to the atmosphere at all times during cleaning.

Depending on the quantity and nature of deposits, most types of scale will be removed in 4-12 hours. When unusually heavy deposits are encountered, a sample of scale should be immersed in the recommended solution strength to determine the approximate time necessary for removal.

When the cleaning operation is completed, the system should be drained and flushed thoroughly with fresh water. A 1% solution of GC should then be circulated to neutralize metal surfaces.

The DREW Air Diaphragm Pump System (PCN 1AA8981) is recommended for cleaning and rinsing operations.

## IMPORTANT INFORMATION AND PRECAUTIONS

- Always add acid to water. Never add water to acid.
- Do not allow acid solution to remain in equipment for more than 24 hours.
- As with all acid cleaning, be sure to remove zinc plates and rods or other sacrificial anodes before cleaning.
- The acid cleaning process may generate flammable hazardous gas, including hydrogen. Do not perform hot work when acid is in circulation.
- Always make sure that equipment has sufficient ventilation to prevent the accumulation of gases.
- Do not use DESCALE-IT liquid acid descaler for removing deposits on equipment made of stainless steel.
- For boiler cleaning:
  - Do not acid clean a boiler with DESCALE-IT liquid acid descaler when deposits contain significant amounts of copper or a high percentage of silica.
  - Never fire a boiler containing an acid solution.
  - Vent to the outside.

**NOTE:** Care should be taken to follow local disposal regulations with all waste water.

## EQUIPMENT REQUIRED

Proper planning is essential when acid cleaning with DESCALE-IT.

The following items are required:

1. The ideal equipment for this cleaning is the DREW Air Diaphragm Pump System (PCN 1AA8981).
2. Vent pipe to carry any gases released during the cleaning to the outside.
3. Protective equipment for personnel performing the acid cleaning. This includes goggles or splash shield, rubber gloves and a rubber apron.



Contact your Drew Marine representative for more information

## TYPICAL PHYSICAL PROPERTIES

Appearance:	Clear water white to light brown liquid
Specific Gravity @ 25° C:	1.14
Flash Point (PMCC):	N/A
Stability:	Stable after repeated freeze-thaw cycles
pH:	<1.0

**NOTE:** Always wear the appropriate personal protective equipment when using this product.

## PACKAGING

DESCALE-IT is available in 25-liter containers (PCN 9511404).

## IMPORTANT INFORMATION

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product 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 Drew Marine products.

### FEATURES

- Concentrated liquid acid
- Contains an effective corrosion inhibitor
- MARPOL Annex V Compliant

### BENEFITS

- Highly effective in removing scale
- Convenient to use
- Soluble in water in all proportions
- Minimizes attack of the base metal
- Effective cargo hold cleaner



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