

DESCALING LIQUID

APPLICATIONS

DESCALING LIQUID is suitable for removal of hardness scale and/or iron oxides from boilers, condensers, evaporators, heat exchangers, cooling systems etc. It must not be used on zinc, aluminum, galvanized materials, cast iron and stainless steel.

DIRECTIONS FOR USE

Descaling can be accomplished by circulation. For large components and systems, use in-situ soaking. For small components soak in immersion bath. The most effective method is by circulation as it ensures renewal of acid film in contact with the scale.

CIRCULATION METHOD

If deposits to be removed are covered with oil or grease, a degreasing treatment with a solution of 2% to 8% of *ALKACLEAN*, *CARBON REMOVER*, *SEACLEAN* with water should be carried out prior to descaling. Circulate solution for 4 to 6 hours with a temperature of 60°C.

After degreasing, start descaling treatment with a solution of 10% to 20% *DESCALING LIQUID* with water. The solution should be circulated for 24 to 36 hours for hardness scale, and 1 to 4 hours for iron oxide scale, depending on nature and state of the deposits. Ensure circuit is vented at the highest point to release gases produced during the descaling treatment. Cleaning solution may be heated to increase the descaling process rate. Do not exceed 40°C as chlorine gas may be liberated above this temperature. Check the acid concentration of the solution regularly. If it drops to less than 1/2 initial concentration, regenerate the solution by adding more *DESCALING LIQUID*. Determination of the acid concentration may be found using an *ACIDITY TEST KIT* (obtainable from *UNIMARINE*)

The progress of operation may be followed by placing scale samples in easily observed positions, When the samples are completely dissolved and effervescence has stopped, circulate for one more hour then drain system thoroughly. Rinse thoroughly with water then drain. To neutralize any remaining traces of acid and to passivate the circuit, circulate a 1% to 2% by weight solution of *ALKALINITY CONTROL* until an acceptable pH value is obtained (normally needs 2 to 6 hour circulation or soaking).

SOAKING METHOD

Procedure is similar to that for circulation, i.e. degreasing, descaling (ensuring venting), rinsing and neutralizing. The same solution strengths should be used. If the descaling solution can be agitated, this will help to renew the acid film coming into contact with the scale.

Continued on page 2

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DESCALING LIQUID

Heavy duty acid compound containing descaling accelerators and corrosion inhibitors

- Fast and efficient removal of scale and iron oxides
- Contains descalant accelerator to increase reactions
- Contains protective corrosion inhibitor against attack on ferrous metals
- Highly concentrated product
- In-situ cleaning eliminates need for extensive dismantling

PRODUCT CHARACTERISTICS

Appearance:	clear liquid
Corrosive action:	inhibited against attack on ferrous metals
Specific gravity:	1,15 (20°C)
Flash point:	none
pH:	<1
IMO Class:	8 / II
UN Number:	1789
ADR:	8.5b)

UNIClean

NATURE OF SPECIAL RISKS AND SAFETY ADVICE

In accordance with the latest EEC Council directives this product is subjected to:

- R34 : Causes burns
- R37 : Irritating to respiratory system
- S2 : Keep out of reach of children
- S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- S28 : After contact with skin wash immediately with plenty of water
- S36/37/39 : Wear protective clothing, suitable gloves and eye / face protection
- S45 : In case of accident or if you feel unwell, seek medical advice immediately
(show the label if possible)