

SAFE DESCALER POWDER

APPLICATIONS

SAFE DESCALER is suitable for removing water scale and rust in diesel engine cooling water systems, boilers, evaporators, condensers etc.

DIRECTIONS FOR USE

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

CIRCULATION METHOD

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

After degreasing, a descaling treatment with a solution of 5% to 10% by weight of *SAFE DESCALER* with water should be circulated for 24 to 36 hours for hardness scale, and 1 to 4 hours for derusting, depending on nature and state of deposits. To avoid saturating the solution, do not exceed solution strength of 10%. Ensure circuit is vented at the highest point to release gasses produced during descaling operations.

Product solution may be heated to increase the descaling process rate up to a maximum of 60°C. Over 35°C slight corrosion may occur on light alloys and galvanized surfaces. Check the acid concentration of the solution regularly by observing its state and color. The initial color is pink and if the color turns yellow the effectiveness disappears. Regenerate the solution by adding more *SAFE DESCALER* until solution regains initial color. To avoid the possibility of a saturated solution, no more than 2 regenerations should be made. If further treatment is necessary the circuit should be drained and a fresh charge introduced.

A check on the progress of the descaling operation may be made by placing scale samples in easily observed positions. When the samples are completely dissolved, 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* for 2 to 6 hours. Neutralize the acidic effluent drained from the descaling solution by using *ALKALINITY CONTROL* until an acceptable pH value is obtained.

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SAFE DESCALER POWDER

Water soluble acid powder containing descaling accelerators and corrosion inhibitors for removing water scale and rust

- Fast and effective scale and rust remover
- Contains descaling accelerators that reduce the cleaning time
- With inhibitors against corrosive attack
- Contains pH sensitive indicator
- Powder product - safe handling and storage

PRODUCT CHARACTERISTICS

Appearance:	white or pink powder
Corrosive action:	suitable for use on most common metals except on zinc, aluminum, cast iron, galvanized materials and martensitic stainless steel
Density:	1,2 (20°C)
pH 1% solution:	1,5
Flash point:	none
IMO Class:	8 / III
UN Number:	2967
ADR:	8.16c)

UNIClean

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SOAKING METHOD

Procedure is similar to that for circulation, i.e. Degreasing, descaling (ensure ventilation!), rinsing and neutralizing. The same solution strengths should be used. If agitation of the descaling is carried out the cleaning process will be accelerated.

NATURE OF SPECIAL RISKS AND SAFETY ADVICE

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

R36/38 : Irritating to the eyes and to the skin

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 and seek medical advice

S46 : If swallowed or if you feel unwell, seek medical advice immediately (show the label if possible)

Contains sulfamic acid