

ULTRASAFE DESCALING LIQUID

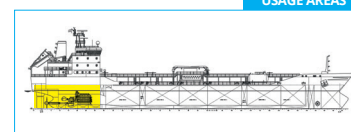
Liquid Safe Descaler

Technical Information

PHYSICAL DATA

Appearance:	liquid colourless
pH in solution with water:	< 2
Specific gravity:	1,430 kg/l
Solubility in water:	complete

USAGE AREAS



DESCRIPTION

Water soluble descaling compound based on diphosphonic acid and corrosion inhibitors.

- Easily dissolves water scale.
- Works either in hot or cold water.
- Improves heat transfer.
- Safe on steel, iron and several alloys.
- Non toxic, non explosive.
- At the end of descaling reaction tends to flocculate the scale particulate.

APPLICATION

- Descaling of diesel engine cooling systems.
- Cleaning and scale removal from coolers sea water side.
- Water scale removal from boilers, heat exchangers, boilers, evaporators etc.
- Especially blended for new MSF evaporators

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 the renewal of acid film in contact with the scale.

Soaking Method

- Procedure is similar to that for circulation, i. e. Degreasing, Descaling (ensuring venting), Rinsing and Neutralising.
- The same solution strength should be used.
- If agitation of the descaling solution can be practised, this will help to renew the acid film coming into contact with the scale; agitation can be brought by the use of small flow of compressed air

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Circulation method

1. If deposits to be removed are covered with an oil or grease film, a degreasing treatment with a solution of 2% to 8% of ALKACLEAN, CARBON REMOVER, SEACLEAN with water should be used prior to descaling, by circulating for 4 to 6 hours up to a temperature of 60°C.
2. After degreasing (where necessary) a descaling treatment of a solution of 3% to 5% by weight of ULTRASAFE DESCALING LIQUID with water should be circulated for between 24 to 36 hours for hardness scale, and 1 to 4 hours for de-rusting, depending on nature and state of deposits. To avoid saturating the solution, do not exceed a solution strength of 8%.
3. Ensure circuit is vented at the highest point to release gases produced during the descaling operations.
4. Product solution may be heated to increase the descaling process rate up to a maximum of 60°C.
5. Check the acid concentration of the solution regularly by observing its state. If effervescence disappears, the circuit should be drained and a fresh charge introduced.
6. By placing scale samples in easily observed positions, a check on the progress of the descaling operation may be made. When the samples are completely dissolved and effervescence has stopped, circulate for one more hour then drain system thoroughly.
7. Rinse system thoroughly with water then drain.
8. To neutralise any remaining traces of acid and to passivate the circuit, circulate a 1% to 2% by weight solution of ALKALINITY CONTROL or BWT ONE SHOT for 2 to 4 hours.

Neutralise acidic effluents drained from the descaling solutions by using ALKALINITY CONTROL until an acceptable pH (5.5 - 7) value is obtained.

IMPORTANT NOTICE

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