



# HSL ECO DESCALE

## The Safe and Effective Way to Improve the Efficiency of Your Plant by Removal of Water Scale



### The problem of water scale...

As a Plant Manager or Maintenance Engineer you already know that water scale on any heat transfer surface reduces the effectiveness of that heat transfer. This results in reduced equipment efficiency while increasing energy consumption, increasing costs and even increasing plant downtime.

In the past removing scale has been a major problem. Mechanical removal requires extensive downtime while the item of equipment is disassembled, then re-assembled. And corrosive acid cleaners, such as concentrated hydrochloric acid, raise occupational health and safety concerns and disposal problems. Not to mention the significant risk of long-term detrimental impact on plant life from metal loss!

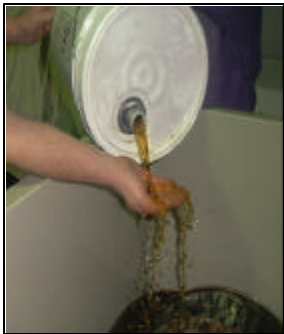


### Announcing HSL Eco Descale...

Now there is a **safe and effective** way to remove scale deposits from **all types of water-cooled and water-heated equipment**. From industrial plants to land mark buildings to marine. HSL Eco Descale is a new technology descaler specifically formulated to **rapidly** clean mineral scale from passages in water-cooled or heated equipment. **It improves Plant Efficiency, Lowers Cost, Conserves Energy, Decreases Down-Time, and Extends the Usable Life of Cleaned Equipment.**

### Safe for your people...

HSL Eco Descale is safe for your maintenance crews when used as directed. The concentrated solution may be held safely in the open hand, without harmful effects. The solution has a pleasant odour and does not have any obnoxious or unpleasant vapours when dissolving water scale, lime and rust deposits.



solvents. **And it reduces the risk of significant metal loss!**

### Safe for our environment...

HSL Eco Descale is safe on the environment because it is biodegradable. The solution normally does not require neutralisers as it is free rinsing with water and self-neutralising when used.



### Safe and Effective For Your Plant and Equipment...

HSL Eco Descale is safe to use on your plant and equipment because it contains **superior corrosion inhibitors** to prevent corrosion of the Steel, Brass, or Copper Surfaces being cleaned on the water side. Effective because its fortified with Powerful Low Foaming Wetting and Penetrating Agents, and Safe degreasing



Dissolved water scale residues may be sewered with water. Check with local authority for proper disposal of the non-toxic, mildly acid waste to

determine additional neutralisation action is required. **And it does not contain toxic cresols or other tar oils that Require SARA Title III, Section 313 spill loss or disposal.**

# Applications For HSL Eco Descaler...

- **Automotive** - Closed Circuit Cooling, Dynamometers, Extruders, Molders, Radiators, Welders
- **Bottling** - CO2 Generators, Heaters, Exchangers, Rinse Tanks, Sterilisers, Washers
- **Buildings** - Chillers, Cooling Towers, Pipework
- **Chemicals** - Dryers, Extruders, Kettles, Mixers, Reactors, Scrubbers, Vacuum Pumps
- **Food** - Condensers, Ice Machines, Kathabars, Refrigeration Equipment, Steam Tables
- **Manufacturing** - Chillers, Compressors, Furnaces, Quenchers, Vacuum Pumps
- **Metals** - Bearings, Castings, Fans, Hearth & Vacuum Furnaces, Shelters, Sprays
- **Mining** - Bearings, Conveyors, Filters, Presses, Process Lines, Radiators



- **Paper** - Calendar Mill Rolls, Caustic Lines, Scrubbers, Compressors, Liquor Tanks, Pulverizers, Vacuum Pumps
- **Pharmaceutical** - Exchangers, Loop Systems, Kathabars, Pumps, Reactors, Stills, Sterilisers
- **Refinery** - Compressors, Converters, Crackers, Exchangers, Piping, Pumps
- **Rubber/Plastics** - Banbury Mixers, Calendar & Mill Rolls, Extruders, Injection Molders, Molds, Temperature Control Units, Throat Coolers, Towers, Tubers
- **Steel** - Bearings, ConCast Units, Generators, Hearths, Spangle Units, Furnaces
- **Textile** - Air Washers, Compressors, Condensers, Exchangers, Extruders, Towers

HSL Eco Descale	Key Attributes
Specific Gravity	1.06
Vapourisation Temperature	226°F
Flash Point	None
Boiling Point	212°F
Strength	Dissolves up to 2.64 lb of calcium carbonate per gallon
Incompatibilities	Do not use concentrated on aluminium surfaces Use HSL Safe Descale on Stainless Steel surfaces
Odour	Slight, not unpleasant.
Recommended concentration	25% to 50%
Time to circulate	Dependent on application
Application	See Application Guide
Environmental	Biodegradable



PROTECTING YOUR ELECTRONICS.

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