

## EcoClean® Scale and Rust Remover HP

### DESCRIPTION

EcoClean® Scale Remover HP is a heavy-duty scale and rust remover. It is one of the safest fast acting products on the market for dissolving calcium carbonate and oxides. Powerful corrosion inhibitors contained in EcoClean® Scale Remover HP protect the treated metals from flash rust.

EcoClean® Scale Remover HP is an acid replacement technology that uses low pH organic salt to replace traditional harsh mineral and organic acids.

### PACKAGING & STORAGE

EcoClean® Scale and Rust Remover HP is available in 5 gallon (19 L) pails, 55 gallon (208 L) polyethylene drums, and bulk. It can be stored in high-density polyethylene, polypropylene, or fiberglass containers.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years

### SURFACE PREPARATION PRODUCTS



### FEATURES

- Fast-acting scale and rust remover
- Contains powerful corrosion inhibitors to prevent flash rust
- Excellent safer choice to replace muriatic acid for scale or rust removal
- Classified as a mild skin irritant according to the OECD Principles of GLP (Good Laboratory Practice)
- Phosphate free
- No VOCs
- Low contributor to BOD/COD in effluents
- Classified as non-corrosive to mild steel
- Components approved for use in Green Seal® and Canadian EcoLogo products
- Components approved by the US EPA as a non-food inert ingredient in biocide applications
- Biodegradable
- Improves flow in water pipes or drainage pipes obstructed by scale
- Improves heat-transfer efficiency on heat-exchanger equipment by creating clean surfaces
- Non-regulated for ground shipments per US DOT; regulated for air and marine transportation

### TYPICAL APPLICATION

- Safer scale removal on all water-contacting equipment surfaces including heat-exchangers, chillers, condensers, cooling towers, and pipes
- Safer multi-metal rust removal

### METHODS OF APPLICATION

Apply EcoClean® Scale and Rust Remover HP undiluted or diluted (up to 1:3 in water) to the surfaces needing treatment, and allow contact time from 5 minutes up to 1 hour, depending on the amount of scale and corrosion. Light abrasion helps removal of loosened scale or corrosion products and speeds up the remover penetration. Rinsing with a neutralizing cleaner such as VpCl®-416 or VpCl®-414 provides further protection.

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## TYPICAL PROPERTIES

Appearance	Clear Yellow to Amber Liquid
Density	9.1-9.3 lbs/gallon (1.09-1.11 kg/L)
pH	<1 (neat)

## CONSIDERATIONS

EcoClean® Scale and Rust Remover HP can be reused. Remove any sediments after use and check pH of the solution (pH=<2) before reuse.

- EcoClean® Scale and Rust Remover HP does not damage moisture-cured-aliphatic-urethane painted surfaces, common uncoated glass surfaces, fiberglass, and rubber.
- Immersion produces best results for most substrates.
- Spraying of EcoClean® Scale and Rust Remover HP may produce discoloration on certain metals (brass and some stainless steel appear to be most affected). Test compatibility in an inconspicuous area before use.
- Follow the SDS on handling of the material.

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