

World's First **Earth Smart[®]** **Acid Technology**

When you need a product to take care of the tough cleaning and descaling jobs, turn to Earth Smart[®] Acid.

Earth Smart[®] Acid is available for use in a variety of product applications to provide our customers with a safer acid alternative that truly works. We call it ESA Technology. You'll call it just plain smart.

In addition to meeting United's Earth Smart[®] standards, products featuring ESA Technology:

- Cling to vertical surfaces;
- Most feature great "Sunshine" fragrance;
- Dye-free and non-staining;
- Non-fuming;
- Contain no phosphates;
- Contain no VOCs;
- Contain no NPEs;
- Have low HMIS ratings - 1, 0, 0;
- Dissolve calcium carbonate 2 to 13 times faster than other acids;
- Are less aggressive to all metals;
- Safer than hydrochloric acid; keeping employees safer.
- Ship non-hazardous, eliminating shipping surcharges.



United Laboratories, Inc.

Earth Smart[®] Acid

Comparison versus Conventional Acids

	Conventional Acids	Pure unformulated Earth Smart[®] Acid (ESA)
HMIS NUMBERS Health Flammability Physical Hazard	3 0 0	1 0 0
Fuming	Often Fumes	Non-Fuming
Shipping Classification	Classified as "Hazardous" Requires hazardous shipping surcharges	Classified as "Non-Hazardous" No hazardous shipping surcharges
Corrosivity to Soft Metals	Corrosive Attacks many soft metals	Non-Corrosive Will not attack brass, chrome or copper
Corrosivity to Mild Steels	Corrosive Attacks many mild steels	Non-Corrosive Will not attack most mild steels (SAE 1020 Carbon Steel)
Phosphates	Some contain phosphates	Contains no phosphates
Rate of Scale Dissolution	Slow	Rapid...two to three times faster than phosphoric acid
Rate of Rust Removal	Moderate	Rapid
Earth Smart[®] Classification	No	Classified as Earth Smart [®]

Put United's ESA Technology to use at your facility with the following products:

United 36 ESA Concrete Remover and Masonry Equipment Cleaner

- Safely removes:
 - Concrete • Stucco • Mortar • Plaster • Hard Water Deposits • Rust

United 67 ESA Total Washroom Cleaner

- Cleans • Descales • Deodorizes with Fresh Sunshine Scent

United 431 ESA Swimming Pool Tile Cleaner and Renovator

- Clings to vertical surfaces and safely removes:
 - Algae • Scum • Body Oils • Suntan Lotions

United 516 ESA VERTICAL VANQUISHER Gelled Industrial Multi-Purpose Descaler

- Extended cling time - one hour!
- Breaks through toughest scale.
- Use on cooling tower fill and wind media, brick and equipment.



United 517 ESA POWER-GEL Washroom and Urinal Cleaner-Descaler

- Extended cling time - one hour!
- Safely removes toughest build-up:
 - Scale • Rust • Lime • Uric Acid

United 577 ESA Urinal Line Renovator

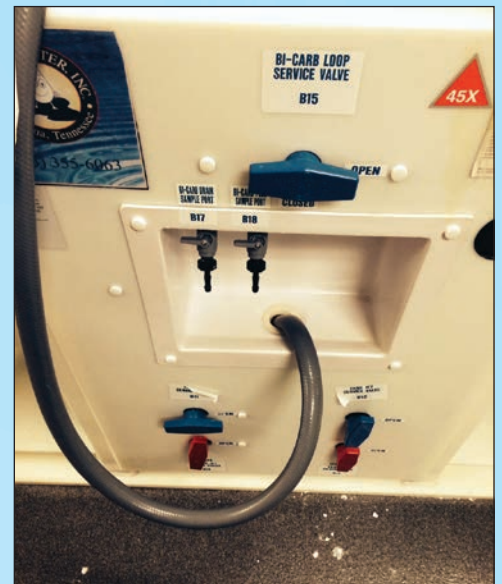
- Safely keeps urinal lines running freely.
- Dissolves scale.
- Dissolves uric acid salts.

United 650 ESA Daily Cleaning and Descaling Wipes

- Wipe away:
 - Scale • Lime • Soap Scum • Water Spots
- Use on most hard surfaces, even UV light lenses in wastewater treatment plants.

United 716 ESA Chase Drain and Water Treatment Descaler

- Use this product in:
 - Dialysis Distribution Cabinets
 - Chase Lines
 - Water Treatment Rooms
- Removes rust and yellow stains from Bi-Carb Machines and water treatment process.



United 717 ESA Multi-Purpose Industrial Descaler

- Versatile descaling product quickly removes the following on acid-resistant hard surfaces:
 - Lime • Rust • Calcium • Scale • Hard Water Deposits
- Use on:
 - Dishwashing Machines • Ice Machines • Steam Tables • Drinking Fountains • Water Meters and Filters

United 817/827 ESA Descaler for Steam Boilers

- Reduce energy costs and prolong equipment life.
- Contains:
 - Corrosion Inhibitors
 - Penetrants
 - Earth Smart® Acid



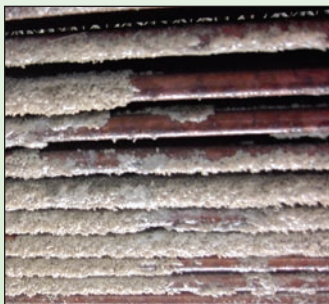
Before



After

United 916 ESA Descaler for Wastewater Dewatering and Collection Systems

- Eliminates scale build-up from:
 - Dewatering Equipment • Piping • Collection System Lines
- Removes:
 - Lime Scale • Hard Water Deposits • Stains • Rust • Grease • Oxidation
- Use in:
 - Pipelines to reduce back-ups and flow limitations.
 - UV disinfection systems



Before



After

United 917 ESA Universal Descaler for Cooling Systems

- Saves you money by:
 - Reducing energy costs.
 - Prolonging equipment life.
- Works safely and effectively with:
 - Corrosion Inhibitors
 - Penetrants
 - Earth Smart® Acid

United 977 ESA CAST-AWAY Non-Fuming Drain Opener for Plaster Traps

- Eliminate headaches of plaster traps and other medical drains.
 - Non-fuming.
 - Keeps drains running freely.
 - Removes residue from casting.
 - Removes residue from barium sulfate used with gastrointestinal radiography.

When it comes to tough cleaning and descaling jobs, United has an ESA Technology product to get the job done more safely, but with the performance expected of traditional acids.



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