

# UniClean America

## FEATURES AND BENEFITS

- **Formulation:** Non-inhibited, water-soluble acid powder.
- **Concentration:** Use 5 – 10% by weight for effective descaling.
- **Temperature:** Heating the solution up to 60°C accelerates the descaling process.

### Features:

- **Easy to Use:** Simple mixing and application processes.
- **Effective Cleaning:** Rapidly removes scale and rust deposits.
- **Versatile Application Methods:** Suitable for circulation, soaking, and immersion techniques.
- **Safe Handling:** Powder form ensures easy and safe storage and handling.

### Benefits:

- **Enhanced Equipment Efficiency:** Removes scale and rust, ensuring optimal performance.
- **Prolonged Equipment Life:** Prevents corrosion and buildup, extending the lifespan of your systems.
- **Cost-Effective Maintenance:** Reduces the need for frequent maintenance and repairs.
- **User-Friendly:** Simple application methods and safe handling make it easy to use.

## UCA+ SAFE DESCALER

### PRODUCT DESCRIPTION:

Introducing UCA+ SAFE DESCALER, the ultimate solution for removing stubborn water scale and rust from various marine and industrial systems. Formulated as a powerful, non-inhibited acid powder, UCA+ SAFE DESCALER ensures effective descaling and rust removal, maintaining the efficiency and longevity of your equipment. Its versatile application methods make it ideal for use in diesel engine cooling water systems, boilers, evaporators, condensers, and more.

### APPLICATIONS:

- **Diesel Engine Cooling Water Systems:** Ensuring optimal heat exchange and preventing overheating.
- **Boilers:** Maintaining efficiency by removing scale buildup.
- **Evaporators and Condensers:** Enhancing performance by eliminating scale and rust.
- **Heat Exchangers:** Keeping heat transfer surfaces clean for efficient operation.

### DIRECTIONS FOR USE:

#### Circulation Method:

1. **Preparation:** If deposits are covered with oil or grease, perform a degreasing treatment using a 2 – 8% solution of an alkaline cleaner.
2. **Descaling:** Mix 5 – 10% UCA+ SAFE DESCALER with water and circulate the solution through the system. Ensure the circuit is vented to release gases.
3. **Heating:** Heat the solution up to 60°C to accelerate the descaling process.
4. **Regeneration:** Add more UCA+ SAFE DESCALER to regenerate the solution if needed. Do not exceed two regenerations.
5. **Rinsing:** After descaling, rinse the system thoroughly with water until the pH reaches 7.
6. **Neutralization:** Neutralize the acidic effluent using an alkalinity control agent.

#### Soaking Method:

1. **Preparation:** Perform a degreasing treatment if necessary.
2. **Descaling:** Soak the components in a 5 – 10% solution of UCA+ SAFE DESCALER. Ensure proper ventilation.
3. **Agitation:** Agitate the solution to accelerate the cleaning process.
4. **Rinsing and Neutralization:** Rinse thoroughly with water and neutralize the solution.



EXCELLENT QUALITY

ENVIRONMENTAL ECOFRIENDLY

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## SAFETY NOTES FOR DESCALING OPERATIONS:

- UCA+ SAFE DESCALER contains strong acids. Handle with care and refer to the Safety Data Sheet and Product Label. Use recommended personal protective equipment.
- Acid reactions during descaling may produce gases like carbon dioxide and hydrogen. Use gas detection equipment to monitor hydrogen levels at vents.
- To prevent suffocation and explosive atmospheres, safely remove gases by purging the system with water after draining the cleaning solution. Ensure proper ventilation during descaling.
- Always use gas detection equipment to confirm the atmosphere is safe before entering confined spaces for inspection.
- When circulating the descaling solution, ensure the inlet is at the bottom to avoid air pockets and entrapment of gaseous reaction products.
- Avoid contact with aluminium, zinc, tin, their alloys, and galvanized surfaces.

Choose UCA+ SAFE DESCALER for an efficient, economical, and safe solution to maintain your equipment's optimal performance and longevity.

## CRUCIAL NOTICE:

Unlock the Safety Data Sheets (SDS) for UniClean America's products—your compass for health and safety when handling our chemicals. Before diving into our products, every manager and employee must delve into these sheets to ensure a smooth sail through safe usage. We are committed to providing precise and dependable information. Nevertheless, it's on you, the user, to wield and employ our product prudently, fully aligned with all laws and regulations. UniClean America and our suppliers don't guarantee any warranties—explicit or implied—pertaining to the product, including its marketability. This product is exclusively offered for your scrutiny and trials. This information does not extend any patents or licenses, either stated or inferred.



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