

# TRIDENT FREEDOM DESCALER

## Descaling Compound

**Form:** Liquid  
**Color:** Red  
**Odor:** Pleasant  
**pH:** N/A  
**Solubility (in water):** Soluble  
**(in mineral spirits):** Insoluble  
**VOC Content (% by weight):** <1.00  
**Flash Point (ASTM D-7821):** N/A  
**Specific Gravity:** 1.20 g/cm<sup>3</sup>  
**Density:** 10.01 lbs/gal  
**Storage Stability (at 70°F):** 1 year

**Great to use for...**

- Cooling towers
- Steam boilers
- Closed loop systems

**For the removal of...**

- Calcium carbonate
- Calcium sulfate
- Calcium phosphate
- Particulate matter
- Rust

<u>Ingredients</u>	<u>C.A.S. #</u>
Water.....	7732-18-5
Organic Salt .....	506-89-8
Hydroxyphosphono- acetic Acid .....	23783-26-8
Acid Red 2 .....	493-52-7

**DIRECTIONS:** Depending on the deposit encountered and the cleaning temperature, TRIDENT FREEDOM DESCALER can be applied at concentrations ranging from 5% - 25% of system volume. Production of foam, a substantial increase in turbidity, conductivity, and an increase in pH demonstrate the cleaning process.

TRIDENT FREEDOM DESCALER contains a pH indicator that is red below a pH of 5 and turns yellow at a pH of 5 or above. Add TRIDENT FREEDOM DESCALER to the system until the system water turns a reddish color (this means the pH is 5 or less, and the descaling process will begin to take place). Allow the water to circulate for two hours. Add additional TRIDENT FREEDOM DESCALER if needed to maintain the pH of 5 or less. When the pH value reaches 6.8 or higher, the color of the water will begin to turn yellow. After circulating for two hours, drain the system and replace with fresh water. Repeat the process if additional descaling is necessary.

Following application of TRIDENT FREEDOM DESCALER, the system must be drained and filled with fresh makeup water. Treatment with an appropriate TRIDENT WATER TREATMENT product is then recommended.

HMIS			NFPA		
	Severe	4	Extreme		
Health .....	Serious	3	High	Health.....	1
Flammability .....	Moderate	2	Moderate	Flammability.....	0
Reactivity.....	Slight	1	Slight	Reactivity.....	0
Personal Protection.....	Minimal	0	Insignificant	Special Precautions.....	None