

# Paratene<sup>®</sup> D728

## Water Based Degreaser

### Description

Paratene<sup>®</sup> D728 is a specialized blend of surfactants designed to aid in the removal of hydrocarbon fouling from process equipment and vessels. Paratene<sup>®</sup> D728 is a water-based alternative to solvent based degreasers, and was created to be a low toxicity, non-flammable and effective on even heavy hydrocarbon fouling.

### Features and Advantages

- ❑ Excellent water wetting and solids carrying capacity.
- ❑ Non-emulsifying – simplifies disposal, and some solutions may be re-used.
- ❑ Water based.
- ❑ Non-flammable.
- ❑ Low toxicity.
- ❑ Alkaline solution – reduces the release of H<sub>2</sub>S and the creation of polythionic acids. Non-damaging to coatings, paint, nylon and rubber.

### Typical Physical Properties

Appearance	Yellow to Water White Liquid
Specific Gravity	1.03 at 15.5 °C
Flash Point	None
pH	10.1
Freeze Point	-5°C
Ionic Character	Nonionic

### Methods of Application

Paratene<sup>®</sup> D728 can be mixed with water, or alkaline solutions at concentrations ranging from 2 to 10 percent to form a cleaning solution. It can be applied using standard cleaning industry techniques including spraying, cascading, or circulating.

The cleaning solution is typically applied at temperatures ranging from 5 to 90°C and circulated for several hours until all of the hydrocarbons have been removed and carried in the cleaning solution. Circulation is then stopped and the cleaning solution stands idle to allow the hydrocarbons and solids to separate out of the solution. The hydrocarbons can be recovered and the remaining solution can be sent to a facility's water treatment unit, to a disposal facility, or in some circumstances re-used.

Paratene<sup>®</sup> D728 may also be applied undiluted to heavily fouled surfaces and allowed to soak for 5 – 30 minutes and then rinsed with water.

Paratene<sup>®</sup> D728 can also be used to adsorb and carry hydrocarbons. When added to an emission scrubber system, D728 can carry up to 5% by volume of hydrocarbon liquids such as benzene, toluene, xylene, terpene, and hexane. Lighter liquid hydrocarbons are too volatile to be emulsified in Paratene<sup>®</sup> D728.

Paratene<sup>®</sup> D728 is an excellent cleaning agent for use with industrial ultrasonic baths. It improves penetration and removal on even the hardest hydrocarbon deposits and its low toxicity and moderate pH makes it compatible with most metals including aluminum.

Where required, Paratene<sup>®</sup> D728 can be combined with other Paratene<sup>®</sup> products to satisfy site-specific degreasing challenges. Consult with the Clean Harbors laboratory to determine the best application for your problem.

### Safety and Handling

Paratene<sup>™</sup> D728 contains trisodium phosphate which may cause irritation to eyes and skin. Always handle with gloves and eye protection. Refer to the material safety data sheet for more detailed information.