

SAFE-SURF W

SAFE-SURF W fluid is a surfactant-base detergent, formulated to remove water-base drilling mud and residue from casing, pipe, and surface equipment. This high pH, strong water-wetting cleaner helps displace mud and solids from tubulars to ensure a clean wellbore is obtained for placement of the completion fluid.*

Typical Physical Properties

Physical appearance.....	Colorless liquid
Specific gravity	0.99-1.06
pH (10% solution).....	10-12
Freezing point.....	32°F (0°C)

Applications

The SAFE-SURF W displacement chemical is used as a cleaning spacer between water-base mud and completion fluid. It disperses mud solids into the water spacer and helps prevent subsequent “hard settling” of the solids as the spacer remains stagnant in a holding vessel. SAFE-SURF W fluid is also used to clean surface equipment and as a rig wash.

Added directly to freshwater or seawater, SAFE-SURF W fluid is typically applied at 1 to 10% by volume, depending on the amount of turbulence and degree of communication. Typical application during a wellbore displacement is 2 to 5% by volume. Surface cleaning is typically accomplished with a concentration of 2 to 3% by volume. Mix directly in pill tank without using the hopper.

As with any surfactant-base cleaner, efficient cleaning is best achieved at high flow rates.

Advantages

- Is effective at low concentrations
- Can be used in combination with caustic spacers
- Contains no alkyl phenol ethoxylates
- Prevents mud solids from settling "hard" on the bottom of containers or the wellbore
- Odorless
- Functions in seawater or freshwater

Limitations

- Freezes at temperatures below 32°F (0°C)
- Can cause detergent builders to precipitate during extended periods of storage temperatures significantly greater than normal. These solids are easily dispersed and are resolubilized at cooler temperatures.
- Tends to foam with excessive agitation from the hopper

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the MSDS.

Packaging and Storage

SAFE-SURF W fluid is packaged in 55-gal (208-L) drums.

Store in a dry well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

No claim of personal safety is intended nor implied by the use of the name SAFE in this product. Personnel handling this material should read and follow all safety and handling procedures set forth on the Material Safety Data Sheet.



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