

# SAFE-SURF E

SAFE-SURF\* E well wash is a blend of non-ionic surfactants and powerful water-wetting agents designed to clean up and displace oil- and synthetic-base mud and solids.

It disperses filter cakes efficiently, while leaving downhole tubulars and casing in a water-wet condition. This contributes to reduced filtration costs, reduced formation damage, increased well productivity, and lower overall well costs.

### Typical Physical Properties

Physical appearance .....	Light, pale tan liquid
Specific gravity .....	1.0 @ 20°C (68°F)
pH .....	8.0
Boiling point .....	100°C (212°F)

### Applications

SAFE-SURF E well wash is designed specifically for downhole use in oil and gas wells for cleanup prior to the start of production.

It is intended to be used as a solution in freshwater or seawater, and applied as a “spacer.” Solutions may be made between 5 and 10% by volume through the rig hopper. Use higher concentrations where higher levels of hydrocarbons exist in the mud to be displaced.

### Advantages

- SAFE-SURF E additive is a near-neutral, non-ionic blend of surfactants and water-wetting agents that will effectively emulsify and suspend the residues of drilling mud and other deposits which could otherwise damage the formation.
- Solutions generally have a pH in the region of 7.5 to 9.5, which not only prevents any attack of cement or acid-sensitive formations, but also assists in controlling possible steel corrosion.
- The non-ionic solution is not affected by normal levels of calcium, magnesium, or barium ions found in most solution make-up waters.
- It does not contain alkyl phenol ethoxylates.

### Toxicity and Handling

HOCNF is available upon request.

Avoid eye and skin contact. Wash after handling. Gloves and goggles are recommended when handling this product. In case of contact with skin, wash exposed area with copious quantities of water. In case of contact with eyes, wash with plenty of water and seek medical advice. SAFE-SURF E well wash does not have restricted classification for transportation.

### Packaging and Storage

Standard pack unit: 210-L (55-gal) drums. Other pack unit: on request.

Store in a sealed container at ambient temperature.



P.O. Box 42842  
Houston, Texas 77242-2842  
Tel: 281-561-1300  
Fax: 281-561-1441  
[www.miswaco.com](http://www.miswaco.com)  
E-mail: [questions@miswaco.com](mailto:questions@miswaco.com)

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