



Drilling Fluids, Inc.

## DESCRIPTION

**AMBERGUARD 215** is a carbamate type biocide for use in drilling mud, completion fluids, and packer fluids.

## USES

In drilling fluids with the potential for biological growth, treatment with **AMBERGUARD 215** will prevent problems. When biological growth occurs in fluids, the organisms can be killed with a treatment of **AMBERGUARD 215**. As a pretreatment the product is used in packer fluids that will be left in the hole for an extended period.

## BENEFITS

**AMBERGUARD 215** prevents or reduces the growth of organisms that interfere with the operation of drilling fluids. Organisms can consume organic polymers, rendering them useless which can cause viscosity problems and foaming. The malodorous byproduct of organisms in a drilling or completion fluid can make working on the mud pits difficult if not impossible. **AMBERGUARD 215** prevents or eliminates these odors. **AMBERGUARD 215** is a carbamate based biocide which is much more environmentally friendly than previous glutaraldehyde based biocides.

## TREATMENT

A treatment level of 5 gallons per 100 bbls or 0.5 ppb is recommended for prevention of biological growth. This will provide 1000 to 1500 ppm in the system. For fluids with active colonies, the treatment must be increased by two to three times as much.

**AMBERGUARD 215** can only kill the organisms it comes in contact with. Dead spots in a circulating system can harbor colonies of bacteria until the biocide has diluted and then reappear, contaminating the entire system again. Efforts should be made to stir up any dead spots.

## FUNCTION

**AMBERGUARD 215** kills aerobic and anaerobic infestations in drilling and completion fluids. Pretreatment will help to prevent the establishment of an infestation. Care should be taken not to use this product or other biocides when organic growth is desired, such as the use of H-Break 100, which depends on the multiplication of enzymes to work.

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### GEO Drilling Fluids, Inc.

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Bakersfield, CA 93305

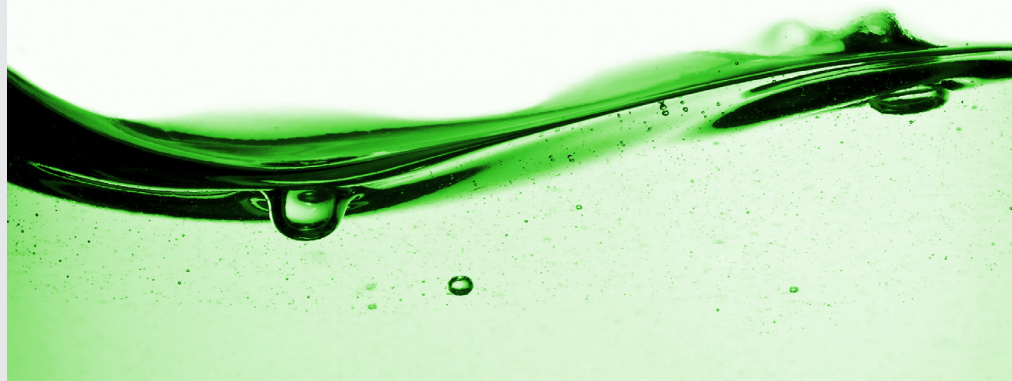
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**geodf.com**





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### TYPICAL PHYSICAL PROPERTIES

Physical Appearance ....Yellow liquid.  
Specific Gravity .....1.064  
Boiling Point.....>100°  
pH .....3.6  
Freezing point .....14°F

### SAFE HANDLING RECOMMENDATIONS

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet (MSDS) for this product prior to use.

### PACKAGING

**AMBERGUARD 215** is packaged in 5-gallon plastic pails.

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