

7284 South HWY 81 - PO Box 813
HENNESSEY, OK 73742



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QB-5 Biocide

GENERAL INFORMATION

QB-5 is a liquid biocide, based on a phosphonium salt, for use in oilfield water applications such as fracturing fluids. Used as directed, it is highly effective and economical in controlling most sulfate-reducing and acid-producing bacteria as well as algae and fungi. QB-5 penetrates biofilms and works synergistically with chlorine- and bromine-based biocides.

PHYSICAL PROPERTIES

Density:	8.30 lb/gal
Solubility in water:	Complete
Solubility in diesel:	Insoluble
Appearance:	Clear colorless liquid
Odor:	Slight
Product pH:	6 to 8
Freeze point:	30° F

CHEMICAL DESCRIPTION

QB-5 is a 5% solution of tributyl tetradecyl phosphonium chloride in a water carrier.

LIMITATIONS

QB-5 has no known incompatibilities with common oilfield chemicals.

TREATING APPLICATIONS

QB-5 is regulated as a biocide by the US Environmental Protection Agency. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

QB-5 is best added to frac or flush water as water is transferred. Loadings as low as 0.10 gallon per thousand gallons of water have been shown to be effective in relatively clean water. Dosages as high as 1 gallon per thousand may be required in badly contaminated waters.

QB-5 should never be poured, but must always be loaded or transferred with a closed metering-pump system. There are several other approved oilfield uses of this product besides fracturing: please see the label for details.

PACKAGING

QB-5 is available in 55-gallon poly drums or 275-gallon poly totes. It is not sold in pails.

QB-5 is classified as a corrosive toxic liquid by the US Department of Transportation. Do not use this product without first reading the product label: wear appropriate personal protective equipment.

DOT description: Corrosive liquid, toxic, n.o.s., 8, (6.1), UN 2922, PGII

AVAILABILITY

QB-5 is available from Chemplex, Ltd. at any of our stocking locations.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer any warranty against patent infringement.



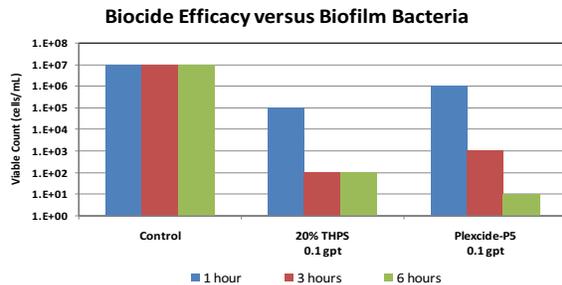
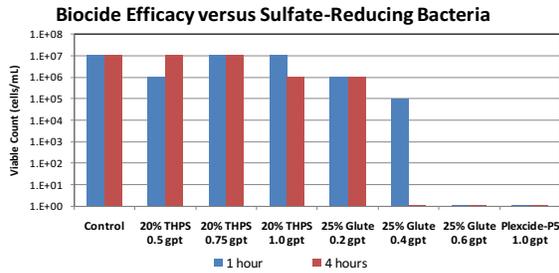
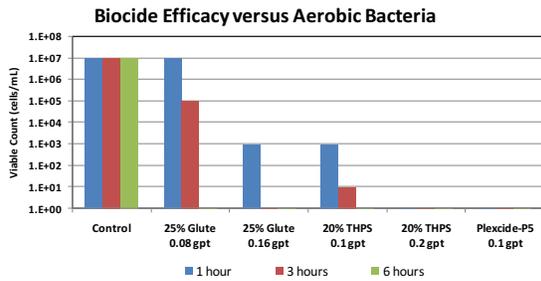
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**QB-5
Microbiocide**



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