



# CS-300

## Liquid KCl Substitute

### Product Features

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- Highly Effective Liquid KCl Substitute
- Can Be Mixed On-The-Fly
- Soluble in Water, Brine and Acid Systems
- Non Surface Active

### Description

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CS-300 is a liquid KCl substitute designed for use as a direct replacement for bagged potassium chloride in providing temporary protection of shale and clay laden formations during acidizing, fracturing and remedial well treatments. The product is non-foaming and is compatible with all gels, crosslinkers and breaker systems typically utilized in well stimulation and work over operations. CS-300 will not affect fluid pH and does not adversely affect formation wettability. The product may be used in fresh water, acid or brine systems and will not hinder the performance of acid corrosion inhibitors. CS-300 may be easily utilized in “on the fly” systems to eliminate pre-mixing of bagged KCl and leftover brine disposal problems.

### Recommended Application

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CS-300 is typically applied to treating fluids at a concentration of 0.5 to 10 gallons per 1,000 gallons of fluid (gbl) depending on the percent KCl being replaced, shale and clay quantities present in the well bore and the type of treatment being performed. Where a 2% potassium chloride functional equivalent is desired, CS-300 is added to fresh water at a concentration of 1 gallon per 1,000 gallons of water.

Fresh water treated with CS-300 functions as potassium chloride to inhibit shale and clay hydration. However, CS-701 does not impart increased fluid density nor lower fluid freezing points. Pilot testing is recommended to assure compatibility with specific systems.

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### Typical Physical Properties

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Form, 70°F	Light Yellow Liquid
Density, (lbs/Gal)	8.50
Pour Point, °F	-20
pH, (10% Solution)	6.5-7.5
Solubility	
Fresh Water	Soluble
15% HCl Soluble	
Hydrocarbon	Insoluble
Ionic Charge	Mildly Cationic

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### Shipping and Handling

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CS-300 is available in 55 gallons drums, tote tanks, and bulk tank wagons. As with any industrial chemical, keep out of reach of children and avoid prolonged contact with skin and eyes. In case of skin or eye contact, flush the exposed area with copious amounts of water. A material safety data sheet outlining proper handling of this product is available upon request, or will be forwarded upon the purchase of the product.



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