

# LCS-20

## KCl Substitute Concentrate

11115-002



LIBERTY

### General Information:

LCS-20 is a highly concentrated liquid potassium chloride substitute of oilfield use. Unlike many other KCl substitutes, LCS-20 has very low toxicity and contains no surfactants.

### Physical Properties:

Density ..... 9.5 lbs/gal.  
Solubility in Water ..... Soluble  
Solubility in Diesel ..... Insoluble  
Appearance ..... Clear, slightly viscous liquid  
Odor ..... Fishy  
Flash Point ..... > 200° F

### Chemical Description:

LCS-20 contains a very high concentration of non-surface-active organic salts in an aqueous solution. The product freezes below 10°F.

### Limitations:

LCS-20 is designed only as a potassium chloride substitute or “temporary” clay stabilizer, and should not be used without a permanent clay stabilizer, such as PCS-20, in highly water-sensitive formations where the permanent stabilizers are ordinarily required. LCS-20 has no known incompatibilities with common oilfield chemicals.

### Recommended Uses:

LCS-20 can be used in any application where dry potassium chloride would be applied. If used in cementing, LCS-20 will still stabilize clays but will not accelerate the set of the slurry. LCS-20 is particularly useful where shipping expense is a significant cost factor.

### Treating Applications:

LCS-20 can be used in the concentration range of 1.0 to 1.5 gallons per thousand gallons of base fluid to give the equivalent clay stabilization of 2% dry potassium chloride in most formations. Higher loadings, to 10 gallons/1000 or more, may be used if clay sensitivity is thought to be a source of formation damage.

### Packaging:

LCS-20 is obtainable in 55 gallon poly drums, 330 gallon poly totes and Bulk storage.

### DOT Information:

DOT information: Not DOT Regulated

