

# LAI-25

## Organic Acid Corrosion Inhibitor

11150-006



LIBERTY



### General Information:

LAI-25 is a corrosion inhibitor designed for use in organic acids such as acetic, formic and citric, as well as oxo acids such as sulfuric and phosphoric.

### Physical Properties:

Density ..... 8.7 lbs/gal.  
Ionic Charge ..... Cationic  
Solubility in Water ..... Soluble  
Solubility in Diesel ..... Dispersible  
Color ..... Dark reddish  
Odor ..... Sharp amine-like  
Flash Point ..... 87°F

### Chemical Description:

LAI-25 contains quaternary ammonium salts, thiourea derivatives, and surfactants in an aqueous base. Nonylphenol derivatives are not used in the product.

### Recommended Uses:

LAI-25 is designed for use as the primary corrosion inhibitor in organic acids such as acetic, formic, or citric acid or in oxo acids like sulfuric or phosphoric acid. LAI-25 gives excellent inhibition on steel, in both oilfield and industrial applications, at temperatures up to 300° F or more.

### Limitations:

LAI-25 is not designed for use in hydrochloric acid or in mixtures containing hydrochloric acid.

### Treating Applications:

Normal treating levels of LAI-25 are 1 gallon per thousand gallons of the acids listed above at temperatures up to 150° F. Higher temperatures will require loadings of 2 to 15 gallons per thousand. Examples of 24-hour corrosion rates on J-55 steel at 150°F with one-gallon loadings of LAI-25 are given in the table below:



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### Treating Applications: (cont'd)

### Corrosion rates (lb/sq ft/day) with organic Inhibitors

Acid	LAI-25
15% phosphoric	0.0032
20% acetic	0.0021
10% acetic / 3% hydrofluoric	0.014

### Packaging:

LAI-25 is obtainable in 55 gallon poly drums, 330 gallon poly totes and bulk storage.

### DOT Information:

**FLAMMABLE LIQUID, N.O.S., 3, UN 1993, PG II**



June 21, 2008

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