

# JMN SPECIALTIES, INC.

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## PRODUCT BULLETIN

### Zirconium Lactate Crosslinker

#### Crosslinker for Hydraulic Fracturing

##### General Description

**Zirconium Lactate Crosslinker** can be used to produce a viscous fluid composition (fracturing fluid) containing a suspended proppant (e.g., sand, bauxite) that is stable for use at high temperatures between 275-340° F (135-171° C). These fluids are typically composed of brine, a thermal stabilizer, a non-delaying alkaline buffer sufficient to provide a pH less than 9, an organic acid, hydroxypropyl guar and a zirconium crosslinking agent. **Zirconium Lactate Crosslinker** is useful producing a fracturing fluid for hydraulically fracturing a subterranean formation or selectively plugging a permeable zone or leak in a subterranean formation.

##### Physical Properties

Appearance / Odor

Clear Liquid / Mild Odor

Specific Gravity

1.175 - 1.185

pH, neat

6.8 – 7.2

##### Availability

**Zirconium Lactate Crosslinker** is available in 275-gallon one way IBC's and bulk quantities.

##### Handling

Observe warning label on containers. Normal precautions for industrial chemicals apply. This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this product to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.