JMN SPECIALTIES, INC.

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PRODUCT BULLETIN

POLY CLEAN PS-71

Alkaline Oxidizing Cleaner for Crosslinked Frac Gel Residue Removal

General Description

POLY CLEAN PS-71 is a high-powered, single-phase alkaline cleaner engineered to dissolve and oxidatively break down persistent polymer-based residues used in oilfield fracturing and stimulation operations. This includes gels made with guar, HPG, CMHPG, HEC, PAA, PAm, and more — even when crosslinked with borate, titanate, or zirconate. **POLY CLEAN PS-71** combines strong caustic, advanced chelates, nonionic surfactants, and a built-in persulfate oxidizer, eliminating the need for staged oxidant application while maintaining complete water solubility and ease of use. **POLY CLEAN PS-71** breaks both natural and synthetic polymer gels, chelates Ti/Zr/Borate crosslinkers for full residue disintegration, contains integrated persulfate oxidizer – no separate breaker needed. Highly effective on aged, dried, or chemically crosslinked gel residues, fully water-soluble, pumpable, and field-ready.

Application Targets

Residue Type	**Effectiveness**
Guar / HPG / CMHPG	Excellent
HEC / CMHEC	Excellent
Polyacrylic / Polyacrylamide	Moderate to Strong
Borate Crosslinked Gels	Excellent (pH + oxidation)
Ti/Zr Crosslinked Gels	Effective with built-in chelators

Recommended Use

Dilution: 5–10% in hot water. Temperature: 120–160°F for optimal reaction kinetics. Contact Time: 30–60 minutes (recirculation or static soak). Final Rinse: Thorough rinse with clean water. Do Not Mix With: Acids, reducing agents, fuels, or other oxidizers

Physical Properties

Appearance	Clear to slightly hazy liquid
Freezing Point	32^{O}F
Flash Point	>93°C (non-flammable)
Solubility in Water	Complete
pH (as supplied)	~13.5
Density	9.00 – 10.0 pounds per gallon

Availability

POLY CLEAN PS-71 is available in UN approved 5-gallon pails, and 55-gallon drums and bulk quantities.

Handling

Observe warning labels on containers. This product contains a strong oxidizer. Use caution and avoid direct contact with organic solvents, acids, or fuels. Refer to SDS for full safety and handling guidance. Normal precautions for industrial chemicals apply. This document does not purport to address all 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.

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