

## Organic Scale Remover KWC029

### 1. Introduction

Wax or asphaltene deposits introduce various well production problems in daily operational activities. Problems include composite scales (organic and inorganic) in wellbore, matrix or gravel packs and organic deposits around downhole tools, tubulars or other well equipment.

S<sup>3</sup> acid is a specially formulated multi-phase fluid using key organic solvent KWC029 as its external phase. It is capable of removing the aforementioned inorganic scales and organic deposits effectively at the same time.

### 2. Physical Properties and Hazards

| Additive | Form         | Specific Gravity | Water Solubility | Melting/Flash Point (°C) | Health Hazard    | Physical Hazard | pH |
|----------|--------------|------------------|------------------|--------------------------|------------------|-----------------|----|
| KWC029   | Clear Liquid | 0.80-0.90        | Immiscible       | 48                       | Inhalation, Eyes | Fire            | -  |

### 3. Chemical Properties and Application

KWC029 serves as organic solvent in S<sup>3</sup> acid systems with well-defined functional characteristics. Its primary function is to dissolve paraffin and asphaltene deposit and disperse the inter-layered inorganic and organic scale mixtures. When KWC029 is blended with acid solutions and dispersant, it generates uniform two-phase fluids (S<sup>3</sup> fluids) that allow solvent and acid to dissolve the composite scales simultaneously.

KWC029 is compatible and works together with KWC018/KWC018A and corrosion inhibitor if needed in S<sup>3</sup> fluid systems, which can be used up to BHST 275°F for most application conditions.

### 4. Treatment

The recommended concentration of KWC029 is 150-200 Gal/1,000 Gal of S<sup>3</sup> acid.

### 5. Packaging

KWC029 is supplied in 55 gallons high density polyethylene (HDPE) drums or 265 gallons HDPE totes. Keep it away from extreme conditions such as places near flames or direct sunlight.