

BSS-4058

BIOLOGICAL SCALE INHIBITOR

Scale/Iron Sulfide Control

Description

BSS-4058 is a liquid non-ionic biological formulation containing select living facultative anaerobic species used for scale inhibition and iron sulfide solubilization through its metabolic by-products. These byproducts include alcohols, ketones, organic acids and biosurfactants. BSS-4058 protects the formation face as well as downhole and surface equipment from scale deposition by sequestering and chelating major cations, such as calcium, magnesium and barium. BSS-4058 produces ketone and organic acid metabolism byproducts that are chelating agents that inhibit the scale crystallization process. This is accomplished by bonding with the cation which prevents it from bonding with the anion to form an insoluble scale. BSS-4058 metabolically solubilizes iron sulfide.

Properties

Physical State:	Liquid	Specific Gravity:	1.020
Freeze Point:	26°F	pH:	6.9
Density:	8.512 lbs/gal	Color:	Yellow
Odor:	Carbohydrate	Shelf Life:	1 Year
Chemical Type:	Liquid Biological Media	Viscosity:	1.25 cps @ 60°F

Application

BSS-4058 can be injected directly into the oil production stream downhole or at the surface. BSS-4058 is thermally stable up to 197°F. The typical dosage concentration is 250 ppm mixed with 2% NUTRIFLEX liquid nutrient. Treatment begins with an inoculation to establish the microbial population in the well system. Thereafter, at fixed periods, maintenance doses of BSS-4058 should be added to maintain the BSS-4058 microbial colonies.

Compatibility

BSS-4058 is compatible with all refinery catalyts. BSS-4058 is not compatible with acid solutions.

Handling

BSS-4058 biologicals meet EPA requirements for release into the environment. Special clothing or equipment is not required for handling BSS-4058. Routine aseptic hygiene practices should always be observed. Refer to the Material Safety Data Sheet (MSDS) for handling and hazard data.

Packaging

BSS-4058 is available in 55 gallon poly drums and 330 gallon poly totes.