

Safe-Scav CA

Safe-Scav* CA oxygen scavenger is an organic sulfur-free additive used in calcium-base brines and seawater. It is a fast-acting material which is effective even at low temperatures.

Typical Physical Properties

Physical appearance	White crystalline powder
Specific gravity	1.65
pH (10% solution)	5.5-8.0
Solubility in water	Soluble

Applications

Safe-Scav CA additive inhibits corrosion caused by the presence of dissolved oxygen in completion and workover brines. It is primarily intended to be used in calcium- and zinc-containing brines such as calcium chloride, calcium bromide, zinc bromide and seawater.

The recommended initial treatment of Safe-Scav CA additive is 15 lb/100 bbl (0.43 kg/m³) of brine. If the concentration of oxygen is high, then this level should be increased to roughly 10 times the concentration of dissolved oxygen. Safe-Scav CA additive should be added at the suction and not through the mixing hopper.

To reduce the amount of air entrained in the brine and the amount of oxygen which may be incorporated into the system, use of the mixing hopper and agitation of the completion fluid by surface equipment should be minimized.

Advantages

- Effective sulfur-free oxygen scavenger for calcium-containing brines
- Fast-acting reaction with O₂, even at low temperature
- Will not precipitate calcium
- A natural product with good health, safety and environmental characteristics
- Easy to handle and store powder; effective at low concentrations

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Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

Safe-Scav CA additive is packaged in pails or bags containing 15-lb (6.8-kg) of dry product.

Store in a dry, well-ventilated area. Keep container closed. Store away from incompatibles. Follow safe warehousing practices regarding palletizing, banding, shrink-wrapping and/or stacking.

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