

SAFE-COR

SAFE-COR* corrosion inhibitor is a modified, amine-type additive designed to protect all oilfield tubular goods. SAFE-COR additive helps prevent general corrosion attack on casing, tubing and downhole tools in contact with clear completion brines.

Typical Physical Properties

Physical appearance	Dark brown liquid
Specific gravity	1.10
Flash point	305°F (151.6°C) (PMCC)
Pour point	<11°F (-12°C)
Viscosity @ 77°F (25°C)	4 cP

Applications

SAFE-COR additive controls corrosion of tubing and casing strings when used in workover or packer brines, including sodium chloride, calcium chloride, sodium bromide, calcium bromide and zinc bromide. SAFE-COR corrosion inhibitor is designed for use in clear brines but may be used in viscosified completion or drilling fluids. Pilot testing for compatibility is recommended for this application.

For treatment of clear brine fluids, one 55-gal (208-L) drum of SAFE-COR corrosion inhibitor should be added to 100 barrels (15.9 m3) of brine. This is equal to 0.55 gal/bbl (13.1 L/m3) or 5 lb/bbl (14.3 kg/m3). SAFE-COR corrosion inhibitor can be added directly to the brine without special mixing equipment or agitation.

Advantages

- Protects metal surfaces in both the shallow, upper part of the well and in the deeper, hotter areas. At the recommended concentration, SAFECOR corrosion inhibitor provides protection at bottomhole temperatures up to 350°F (177°C)
- Protects both tubular goods and completion tools exposed to workover or clear completion brines
- Compatible with sodium chloride, potassium chloride, calcium chloride, sodium bromide, calcium bromide and moderate-density zinc bromide brine fluids

Limitations

- When applied to zinc bromide fluids, recommendations should be obtained from the Completion Fluids Technology Group.
- Designed for application in clear brine fluids. If used in a viscosified completion or drilling fluid, pilot testing for compatibility is recommended.

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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 as described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

SAFE-COR corrosion inhibitor is packaged in 55-gal (208-L) drums.

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

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