

Fluid[®]

PRODUCT DATA SHEET

Enviro-Syn[®] HCR-3000[®]

Chloride Free, Chrome Safe Synthetic Acid[™] System

Enviro-Syn[®] HCR-3000[®] is a strong environmentally-friendly Synthetic Acid[™] solution, designed to reduce the risks associated with exposure, corrosion, and negative HSE properties commonly linked to HCl.

APPLICATIONS

- ✓ Formation stimulation, scale removal and workover treatments
- ✓ High temperature
 - SAGD
 - CSS
 - Geothermal
- ✓ Ideal for applications where a strong acid is required and high temperatures or exotic metals are exposed
 - Chrome/chrome plating-plated
 - Aluminium
 - Copper
 - Brass

FEATURES & BENEFITS

- ✓ Chloride free
- ✓ Comparable solubilizing capabilities to 20% HCl
- ✓ Minimal reprecipitation at high pH levels (> 4)
- ✓ Blends available up to 220°C (430°F)*
- ✓ Compatible with typical oilfield elastomers (e.g., Viton, Nitrile and EPDM)
- ✓ Stable corrosion inhibitor (CI) package, free of hazardous chemicals such as formic acid and propargyl alcohol (PA)
- ✓ Non-regulated for transportation

*Temperature limitations may vary based on specific well conditions



PHYSICAL PROPERTIES

Specific Gravity:	1.2
Freezing Point:	≈ -30°C (-22°F)
Boiling Point:	> 100°C (212°F)
pH:	< 1.0
Solubility:	Soluble in water

SUPPORT HSE AND ESG GOALS



Non-corrosive
to skin



Non-fuming



Biodegradable



Non-regulated for
air, land and sea
transport

TOTAL SOLUBILITY

Table 1. Total solubility of Enviro-Syn HCR-3000 on a variety of scales.

Acid	Scale	Total Solubility (kg/m ³)	Total Solubility (lb/gal)
20% HCl	CaCO ₃	253	2.1
HCR-3000 Concentrate	CaCO ₃	280	2.3
HCR-3000 Concentrate	CaMg(CO ₃) ₂	190	1.6
HCR-3000 Concentrate	FeS	170	1.42

NOTE: High temperature corrosion inhibitor loadings can alter total solubilizing ability.

SAFETY, STORAGE & HANDLING

- ✓ Store in sealed containers, such as plastic pails, lined drums and HDPE IBC totes
- ✓ Fittings and valves should be HDPE, brass or stainless steel
- ✓ Store out of direct sunlight
- ✓ Consult SDS for additional information and PPE requirements
- ✓ Shelf life of > 1 year; confirm corrosion if product sits for > 60 days

Talk to us today about our revolutionary products available globally.

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