



**HYBRID CHEMICAL
TECHNOLOGIES**

IRON CONTROL FOR ACID

HIC-1

HIC-1 is a complexing agent based iron control additive for acid applications. Its purpose is to remove any iron which may be incorporated into the solution through acidic corrosion of downhole materials or native iron compounds. Iron can have a detrimental effect on the stability of asphaltenes in solution and can cause precipitates or sludging, that can be very difficult to remediate once formed. The HIC-1 also prevents iron oxide precipitate, as the acid spends.

APPLICATION

HIC-1 is typically used between 0.5% and 2.0% and can be used in concentrated HCl Acid systems up to and including 15%, it is active at temperatures up to 105°C.

PROPERTIES

Appearance	Solid white powder
Odour	None
pH	2.2 (1% Solution)
Freeze Point	-205°C (401 °F)
Specific Gravity	1.665

HANDLING & STORAGE

Handle wearing appropriate PPE. Ensure adequate ventilation. Store out of direct sunlight. Refer to SDS for more information.

OPERATIONAL BENEFITS

- Very useful for lower temperature and lower strength acid packages.
- Effective complexing iron control that reduces the risk of asphaltenic sludging.
- Compatible with most acid packages.
- Can be used synergistically with acetic acid to boost its iron control capabilities.

CAUTIONS

- The presence of excess cations may consume the HIC-1, leaving less HIC-1 available for iron control.