

# JMN SPECIALTIES, INC.

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## PRODUCT BULLETIN

### SPEC HIB LDHI-10

#### Low Dosage Hydrate Inhibitor

##### General Description

The formation of natural gas hydrates can be a serious issue in oil and gas production. Hydrates are crystalline, ice-like solids that form when small gas molecules, such as methane, ethane, and propane are trapped in cages of water molecules under high-pressure and low temperature conditions. These conditions are often encountered in offshore operations, such as subsea flow lines and in onshore applications under cold weather conditions in northern regions.

**SPEC HIB LDHI-10** is a non-thermodynamic chemical inhibitor that is very different from traditional inhibitors in that it does not shift the thermodynamic hydrate equilibrium conditions towards lower temperatures and higher pressures. Instead, **SPEC HIB LDHI-10** interferes with the process of hydrate formation. **SPEC HIB LDHI-10** is used to prevent gas hydrates from forming during gas production, especially in offshore operations. They are effective at low dosages and provide a sound alternative to alcohol or glycol injection. **SPEC HIB LDHI-10** functions both as a Kinetic Hydrate Inhibitors (KHI) as well as an Anti-Agglomerants (AA) inhibitor. **SPEC HIB LDHI-10** is biodegradable (OECD 306 >50% in 28 days).

##### Application

The effective concentration for **SPEC HIB LDHI-10** typically ranges from 500 ppm to 3% of the total amount of water being treated thereby reducing the overall costs as well the storage and handling hazards associated with thermodynamic inhibitors. **SPEC HIB LDHI-10** hydrate inhibitor should be applied on a continuous basis into the flowing gas, upstream of the hydrate forming region. It can be applied at 0.5% to 3% based on water production. This usage should be approximately 10 – 20 times less volume than using methanol alone or other typical thermodynamic hydrate inhibitors.

##### Physical Properties

Color	Clear, to light amber liquid
Odor	Alcohol
Specific Gravity	0.82 – 0.84
pH	NA
Flash Point	52 to 54 °F (11 to 12 °C)
Solubility	100% Soluble in Water & Saturated Brines

##### Availability

**SPEC HIB LDHI-10** is available in UN approved 5 gallon pails, 55 gallon drums and bulk quantities.

##### Handling

Observe warning label on containers. Normal precautions for industrial chemicals apply.

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