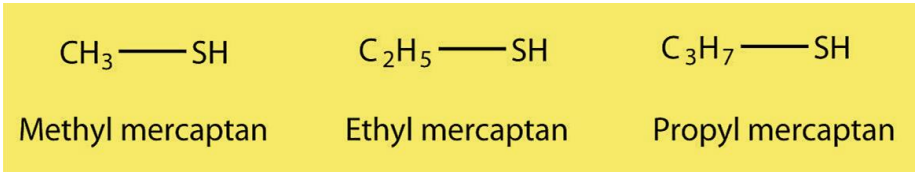
NexoSolutions

Technical Information

Intellichem® MR: Mercaptans Removal Chemical Technology

The **Intellichem MR** chemical technology is a water-soluble and oil soluble multicomponent blend of complex actives and hydroxyls stabilized into a multi-alcohol solvent system. This product is extremely effective in removing various mercaptans from various gas and liquid streams such as:

- Natural gas and LNG feed gas
- Fuel gas
- Treated gas
- Vent gas and Off gas
- Natural Gas Liquids (NGL)
- Hydrocarbon condensates
- Refinery intermediates
- Crude Oil



Despite what the name infers, the technology is not a common scavenger in chemical terms. The proprietary formulation is more defined as a removal technology since it does not act by "scavenging" the mercaptan molecule. It rather converts the mercaptan irreversibly into stable non-hazardous, water and hydrocarbon soluble components and other related species. This eliminates the many issues and detrimental effects in the process system often associated with caustic that leave reaction products in the hydrocarbon phase and present cumbersome regeneration or disposal. It is more effective than caustic treating and the product is capable of removal different of mercaptan types.

Intellichem MR is a non-corrosive liquid which is compatible with most production chemicals and materials. The chemical generally requires little retention times, however this will depends on the type of mercaptan to be removed. The reaction with mercaptans is irreversible and forms stable by-products.

Intellichem MR can be injected directly in locations where gas and liquid streams are present. The product can be also used for H_2S, COS, CO_2 and COS removal. Efficient mixing and contacting of the chemical with the fluid is vital for obtaining high removal yields.

The capital investment to remove mercaptans from hydrocarbon streams is typically much lower compared to other alternatives. The reaction effectives and irreversibility makes it attractive for replacing caustic alternatives. Disposal is simple and the effluent can be used for further treating other streams. The overall system has a much smaller equipment size and total footprints with lower costs and higher performance.

For additional information, please contact us at **Support@NexoSolutions.com**

Tel +1 (832) 510 8191
25003 PITKIN ROAD | SUITE A100 | THE WOODLANDS, TEXAS 77386 | USA NEXOSOLUTIONS.COM