

FLUID PHASE H₂S SCAVENGER

RX-5105 Series



Description

RX-5105 is a new product available on the market that is field proven to be very effective at fluid phase H₂S scavenging in both dynamic and static situations.

RX-5105 has an excellent environmental profile with a GOLD Charm banding and contains no substances flagged for substitution. The product is also readily biodegradable.

RX-5105 is based on aldehyde chemistry, but is non-toxic and not classed as hazardous under UN transport regulations. The reaction products are also non-toxic and water soluble.

RX-5105 is an acidic solution which eliminates high pH scaling issues and also emulsion tendency, which are the main problematic side effects of traditional triazine based treatments. The product is also completely odourless which is a major handling advantage over most triazine types which have pungent odours.

RX-5105 should be used in situations where the H₂S in the gas and fluids are required to be scavenged subsea in order to meet pipeline specifications. The RX-5105 can also be applied to static fluids that are heavily contaminated with H₂S. The RX-5105 scavenging efficiency is very much dependant on residence time and pH of the aqueous medium. The optimum pH for the aqueous medium is the range 5 to 7.

RX-5105 is also available as a more concentrated form, RX-5105C, and a less concentrated form, RX-5105D.

Application

RX-5105 is generally recommended for use at approximately 19 kg of product per kg of H₂S. This can vary depending on H₂S level, temperature, residence time, pH of aqueous medium and concentration of RX-5105 deployed.

Discussions with Roemex representatives will allow the most effective treatment to be recommended and applied in the most appropriate manner.

Properties

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| Specific Gravity | - | 1.2 |
| Boiling Point | - | 104°C |
| pH | - | 2 to 3.5 |
| Appearance | - | Clear Virtually Colourless Liquid |
| Hazard Class | - | Non Hazardous |
| CHARM / OCNS | - | Gold, No warnings |

Handling

No special procedures need to be observed. Normal precautions should be taken and protective clothing, goggles and PVC/rubber gloves should be worn.

Packaging

Available in 208 litre drums, 1,000 litre IBC's or in exact quantities supplied in tanks of up to 4,500 litre capacity.