

Product Overview

C-1031 is a newly developed H₂S scavenger designed for use in single liquid phase applications with proven efficiencies of up to 10x that of traditional triazine-based H₂S scavengers. C-1031 is a water-soluble/oil-dispersible product and can be applied directly into the oil phase to quickly scavenge H₂S in both the liquid and the headspace.

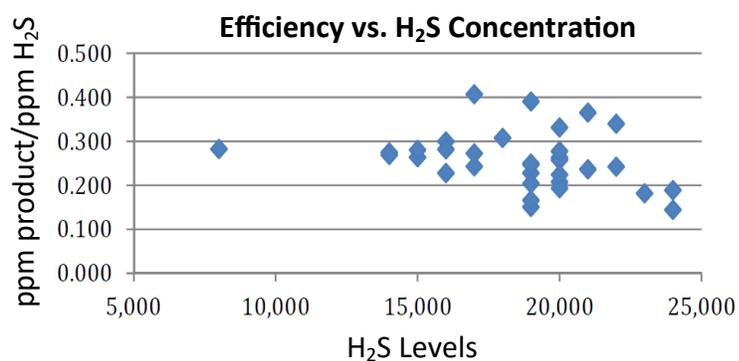
Features

- Unrivaled scavenging efficiencies—performing with efficiency rates of 0.1—0.5 ppm / ppm H₂S
- Will react instantaneously with H₂S, reducing the need for prolonged contact time with traditional scavengers
- Strong thermal stability, allowing for a wide range of applications

Case Study

While trying to scavenge H₂S from their liquid hydrocarbon flowline, a producer in the Eagle Ford Shale was challenged by solids formation from their scavenger’s byproducts and the need to improve scavenger efficiencies. C-1031 was proposed as a high efficiency alternative, and the product was injected downstream of the final separation vessel. H₂S levels were monitored throughout the production system and efficiencies were calculated to determine the cost benefit.

While traditional scavengers require 1-5 ppm of product per ppm of H₂S, C-1031 was shown to significantly improve the scavenging efficiencies, which reduced the overall required volumes and chemical spend for the operator. The product’s efficiencies (ppm C-1031 / ppm H₂S) were tracked during the trial as shown below.



Conclusion

C-1031 was highly effective in scavenging H₂S from the oil phase at up to 10x the efficiencies of traditional H₂S scavengers. With an average of 18,900 ppm of raw H₂S entering the production system, the product successfully scavenged the H₂S to an average of 10 ppm H₂S at the tank inlet and 3 ppm H₂S at the LACT. The trial was determined to be a success due to the product affordability and efficiency, ultimately reducing the total chemical usage and spend.

Typical Properties

Form:	Colorless Liquid
Specific Gravity:	1.02
Flash Point:	< 70°F
Pour Point:	- 40°F
pH:	12-14
DOT Classification:	Flammable; Corrosive

Storage & Handling

C-1031 should be handled in accordance with other common industrial strength chemicals. The product is a flammable liquid and proper fire prevention and mitigation protocols should be exercised accordingly. The products MSDS/SDS should be reviewed prior to transportation, handling, and storage. Keep away from eyes and face and always use safety glasses or face shields and proper gloves. Contact INFOTRAC immediately for spills or releases of the product: 1-800-535-5053.

DOT Transportation

Regulatory Information	UN Number	Proper Shipping Name	Classes	PG
DOT Classification	UN 2924	Flammable Liquid Corrosive, N.O.S. (methanol and hydroxyl)	3 (8)	II



Reportable Quantity

10,526 lbs/4778.9 kg
(1237.7 gal/ 4685.2 L)

Package sizes shipped in quantities less than the product reportable quantities are not subject to the RQ transportation requirements.

Contact: contact@creedence-energy.com

Visit: www.creedence-energy.com

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