

# MERICAT™

H<sub>2</sub>S & Mercaptan Sweetening



MERICAT™ technologies were first licensed in 1977 and to date Merichem has granted 194 unit operating licenses world-wide. The non-dispersive FIBER FILM® Contactor achieves reduced capital expenditure and less plant space requirements compared to most treating alternatives, making MERICAT™ and MERICAT™ C the technologies-of-choice.

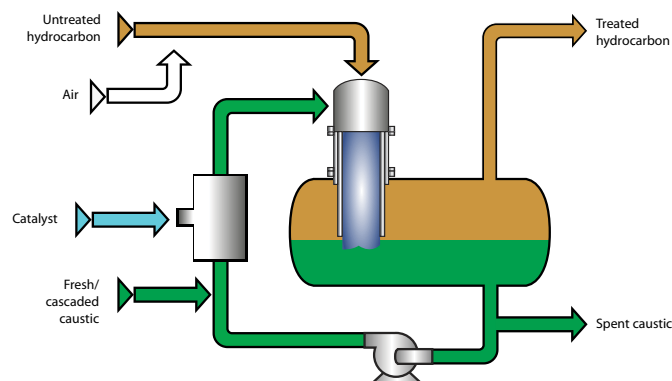
## Applications

Downstream

Crude Distillation Unit	LSR/HSR Naptha (H <sub>2</sub> S, RSH)
FCCU or RCCU	Heavy or Full Range FCC Gasoline (H <sub>2</sub> S, RSH)
Coker, Visbreaker or Hydrocracker	LPG and Naptha (H <sub>2</sub> S, RSH, COS)

Upstream

Gas Production Field	Condensate (H <sub>2</sub> S, RSH)
Oil Production Field	Crude Oil (H <sub>2</sub> S, CO <sub>2</sub> , RCOOH, RSH)



MERICAT™ technologies employ the FIBER FILM® Contactor as the mass transfer device and utilize a caustic/catalyst/air mixture as the treating reagent to remove hydrogen sulfide and sweeten mercaptan compounds in gasoline/naphtha, condensate and crude oil streams.

## Mercaptan Oxidation

**MERICAT™** — Liquid-liquid contact incorporating caustic, air and catalyst to oxidize mercaptans in light, heavy and full-range cracked naphthas.

**MERICAT™ II** — Combination of liquid-liquid and solid-bed contact using caustic, air, catalyst and carbon to oxidize heavy mercaptans in jet fuel and middle distillate streams.

**MERICAT™ J** — Liquid-liquid contact without the use of a carbon bed to oxidize mercaptans in middle distillates and gasoline/naphtha. Utilizes proprietary JeSOL™-9 solution as the treating reagent.

**MERICAT™ C** — Liquid-liquid contact incorporating caustic, air and catalyst to oxidize mercaptans in crude oil.



Each treating system is custom-designed to meet customer requirements, then engineered and fabricated to the customer's specifications. Whether your need is for a completely new facility or a minimum retrofit to upgrade existing equipment, Merichem Company has the solution.

### Merichem Process Technologies

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