



West River Chemicals
www.westriverchemicals.com

SourKill®

Selective Sulfur Scavenger

21st Century Technology developed in America by West River Chemicals

Technical Information

Description

SourKill is a highly effective sulfur scavenger for hydrocarbon sweetening. It is a low viscosity hydrophilic liquid available in two forms (SourKill-L and SourKill-S) which eliminates sour sulfur species present in petroleum and hydrocarbons. This treatment is particularly effective against hydrogen sulfide and thiols, and remains WRC proprietary technology. Rapidly eliminates higher concentrations of these contaminants, either as solids or as liquids.

Application

Depending on the extent of sour sulfur in hydrocarbons, SourKill is added to contaminated stock in the order of 1% by volume, and allowed to react under agitation for at least 1 h, and for best results continue agitation for 2 hours. SourKill also works without agitation, under diffusion controlled conditions, at a much slower pace depending on the internal geometry of the vessel.

Product Selection

This depends on the user's preferred mode of waste generation and its disposal, namely:

- SourKill L for liquid disposal (waste eliminated by draining)
- SourKill S for solid disposal (waste is filtered or settled)

Use either form independently, and should not be brought together. Both forms are not necessarily supplementary of one another.

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01915 Guatemala, Guatemala

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Capture of Sour Gas

SourKill reacts instantly under ambient conditions with H₂S emissions generated by crude hydrocarbons and by biogas. Through a low oxidation mechanism, sulfur undergoes facile catenation forming an innocuous solid waste with essentially no odor or emissions. A waterborne scrubber system with agitation and filtration is required. After filtration, this waste can be disposed of safely. This substance is a complex organic sulfurous molecule which can be assimilated by earth as a plant nutrient. Based on the sour gas concentration and flow rates, quantitative scrubbing can be readily obtained. Calculations are derived from the equivalent weight of SourKill-S, at 110 +/- 1 g/eq.

Warning

SourKill contains oxymethylene, a toxic and known carcinogen. It should be used in a well ventilated area.

Recommended Usage

Depending on the amount of sour sulfur, a recommended amount is in the order of 1% v/v relative to hydrocarbon stock with approximately 500 ppm.

Availability

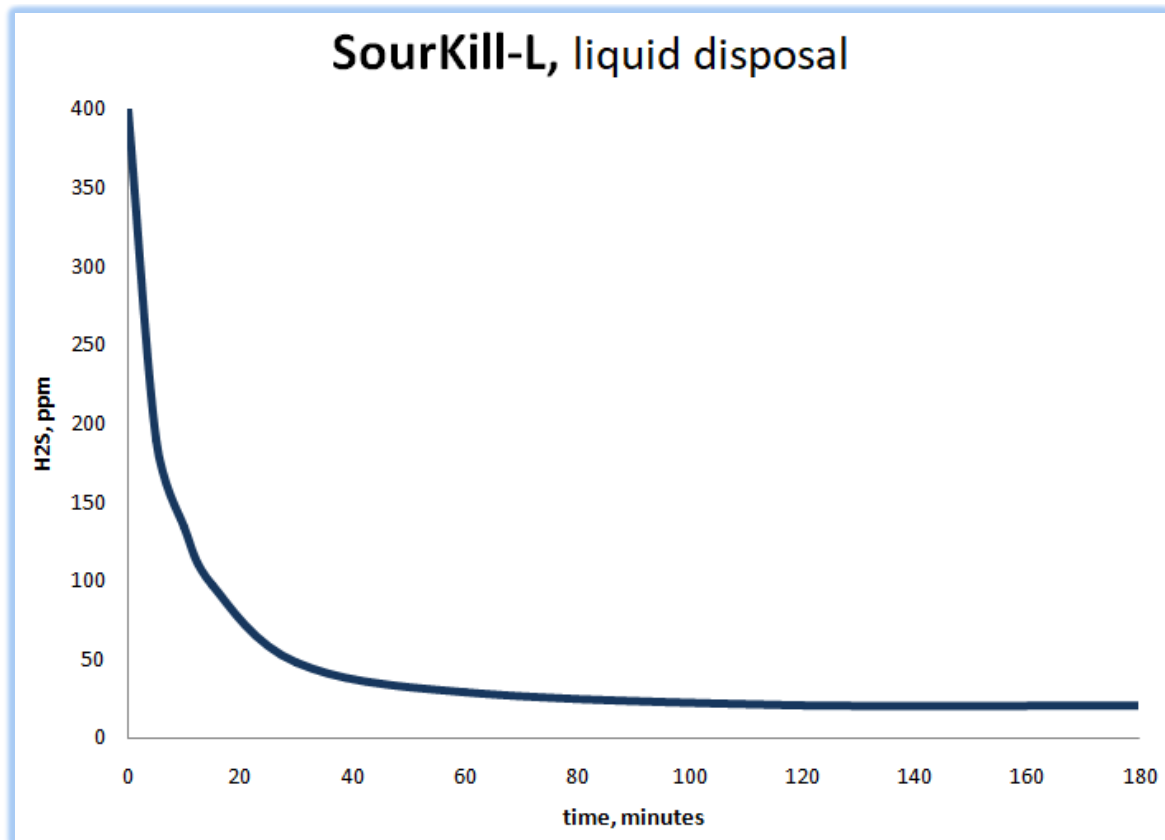
SourKill L and SourKill S are both available in single gallon and fifteen gallon containers.

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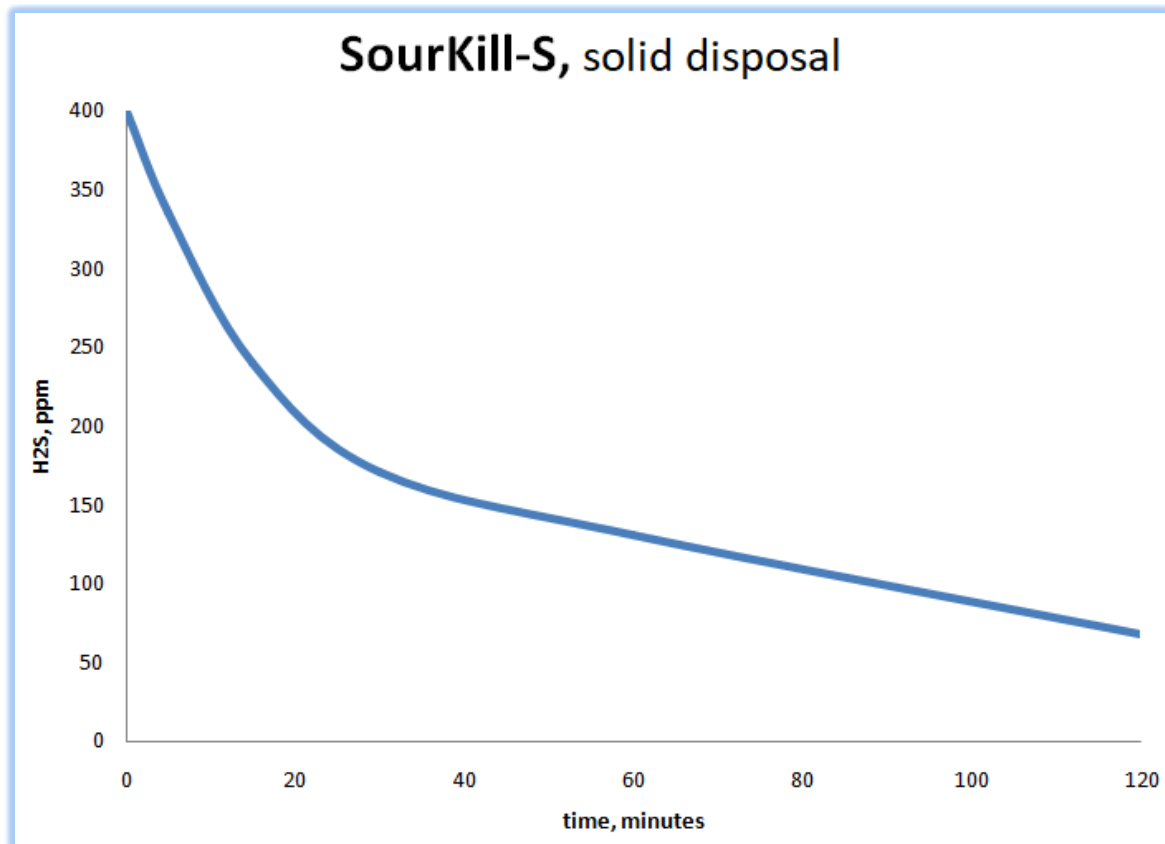


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