

# Technical Data Sheet

[aulickchemical.com](http://aulickchemical.com)



## Sul-Fight FX

Sul-Fight FX was designed to treat hydrogen sulfide odor and corrosion issues in wastewater collection systems. As other chemistries focus on treating hydrogen sulfide, Aulick understands as collection systems expand and new 'low pressure' force main technologies increase the anaerobic environment of the wastewater, hydrogen sulfide problems continue to rise.

Sul-Fight FX works in difficult treatment environments where hydrogen sulfide and sulfates exist. Aulick's focus when designing Sul-Fight FX was to ensure that there is no ill effect on the wastewater treatment process.

## Hydrogen Sulfide

Hydrogen sulfide is an organic acid, produced in the anaerobic digestion process. Bacteria in wastewater is searching for available oxygen for respiration. Once the environment is anaerobic and absent of available oxygen, the next available oxygen source are sulfate ( $\text{SO}_4$ ) compounds.



### Sul-Fight FX Feed Locations

- Municipal manholes
- Collection system lift stations
- Sludge holding tanks
- Belt filter press
- Collection headworks
- Air scrubbers

### Factors That Influence $\text{H}_2\text{S}$

- Residence time
- Temperature
- Agitation (airborne  $\text{H}_2\text{S}$ )
- Concentration

# Technical Data Sheet

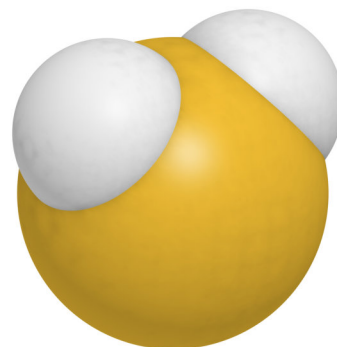
aulickchemical.com



## Sul-Fight FX

Sul-Fight FX is a proprietary blend of iron and nitrates. This gives Sul-Fight FX the unique ability to react in **2 specific ways**.

1. It first reacts immediately with existing hydrogen sulfide producing a non-odorous byproduct. This is where technology of old stopped. As our research has proven, the conversion to hydrogen sulfide is not immediate but continuous.
2. The reaction that occurs is a preventive action of offering an oxygen compound with lesser bond strength than the S-O bond in sulfates. The anaerobic bacteria will select the most available oxygen source.



### Specifications

- Specific gravity: 11.8 PPG
- Boiling point: 212 to 370°F
- pH: 4.0 - 4.4



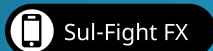
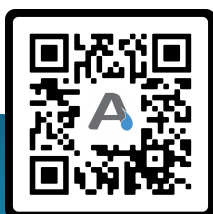
### Application

Sul-Fight FX feed varies depending on the unique needs of each specific wastewater collection system.



### Availability

Sul-Fight FX is available in 5 gallon pails, 55 gallon drums, 330 gallon totes, and bulk shipments.



Aulick Chemical Solutions  
111 Patton Ct.  
Nicholasville, KY 40356  
859.881.5422

# AULICK