

# SGT-281 Product Data Sheet



**Revision Date:** 09/21/2021

---

---

## **Section 1: Product Name**

---

Product Name: SGT-281

Synonyms: Hydrogen sulfide liquid scavenging product, oxidizing liquid

Reaction Type: Oxidation reduction

Reaction Thermal Properties: Endothermic

Product Use: Product uses include as an industrial hydrogen sulfide scavenging product

---

## **Section 2: Physical and Chemical Properties**

---

Appearance: Light yellow, aqueous liquid

Odor: Faint to odorless

Physical state: Liquid

Specific Gravity: 1.123

Unspent pH: 7.72 @ 88.3°F

Spent pH: 9.7 @ 68.0°F (lower at normal operating temperatures)

Boiling Point: 212°F

Freezing Point: 30°F

Solubility: 100% in water

Molecular Weight: 181 g/mol

Viscosity: 1.25 cSt @ 70.0°F

Thermal Conductivity: 0.602 – 0.642 W/m\*K

Specific Heat: 365 – 375 KJ/kg\*K

Latent Heat of Vaporization: 2170 – 2230 KJ/kg\*K

Latent Heat of Fusion: 370 J/g°C @ -35°C

Density of Liquid: 1.123 g/Cm<sup>3</sup>

Reaction Byproducts: Sulfur, sodium thiosulfate, ammonium thiosulfate, ammonia, and carbonic acid

Gas Saturation: 100%

---

### Section 3: Disposal and Waste Classification

---

Waste Classification: Texas-exempted solid waste

Hazard Classification: Non-hazardous

Typical Disposal Methods: Saltwater disposal well, land fill, comingle with produced water, onsite disposal

---

### Section 4: Hazard Identification

---

Classification: GHS Classification (CLP00):

H272 - Oxidizing liquids - Category 3 - Warning

H301 - Acute toxicity, oral - Category 3 - Danger

H319 - Serious eye damage/eye irritation - Category 2A - Warning

H400 - Hazardous to the aquatic environment, acute hazard - Category 1 – Warning

NFPA 704 Hazard Classification:

HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0 OTHER: Oxidizer as a dried solid

(0-Minimal, 1-Slight, 2-Moderate, 3-Serious, 4-Severe)

