

MACURCO

GAS DETECTION



Monthly Topic: Hydrogen Sulfide (H2S)

- Hydrogen sulfide is a colorless, flammable, extremely hazardous gas with a “rotten egg” smell. Some common names for the gas include sewer gas, stink damp, swamp gas and manure gas. It occurs naturally in crude petroleum, natural gas, and hot springs.
- Hydrogen sulfide is produced by bacterial breakdown of organic materials and human and animal wastes (e.g., sewage).



HS-1

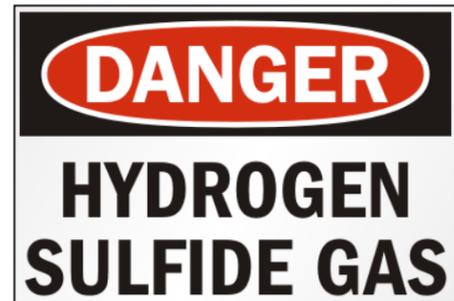
- Hydrogen sulfide is heavier than air and may travel along the ground. It collects in low-lying and enclosed, poorly-ventilated areas such as basements, manholes, sewer lines, underground telephone vaults and manure pits.
- With continuous low-level exposure, or at high concentrations, a person loses his/her ability to smell the gas even though it is still present (olfactory fatigue). This can happen very rapidly and at high concentrations, the ability to smell the gas can be lost instantaneously. Therefore, **DO NOT** rely on your sense of smell to indicate the continuing presence of hydrogen sulfide or to warn of hazardous concentrations.
- **NEVER** attempt a rescue in an area that may contain hydrogen sulfide without using appropriate respiratory protection and without being trained to perform such a rescue.



TX-6-HS

Health Effects

- Hydrogen sulfide is both an irritant and a chemical asphyxiant with effects on both oxygen utilization and the central nervous system
- **Low** concentrations irritate the eyes, nose, throat and respiratory system (e.g., burning/tearing of eyes, coughing, and shortness of breath).
- **Moderate** concentrations can cause more severe eye and respiratory irritation (including coughing, difficulty breathing, and accumulation of fluid in the lungs), headache, dizziness, nausea, vomiting, staggering and excitability.
- **High** concentrations can cause shock, convulsions, inability to breathe, extremely rapid unconsciousness, coma and death. Effects can occur within a few breaths, and possibly a single breath.



Macurco Gas Products

- [TX-6-HS](#)
- [TX-12-HS](#)
- [Portable H2S Monitors](#)
- [Explosion Proof](#)

Gas in the News

- [Oilfield Accident](#)
- [Manure Pit Accident](#)
- [Tank Accident](#)
- [Refinery Accident](#)

Learn More

- [H2S Facts](#)
- [Compound Summary](#)
- [Workers Safety](#)
- [OSHA Standards](#)

Applications

- | | | |
|------------------------|------------------------------|---------------------------|
| ✓ Petroleum Drilling | ✓ Pulp & Paper Mills | ✓ Sewers |
| ✓ Natural Gas Drilling | ✓ Food Processing | ✓ Gas Refining |
| ✓ Oil Refining | ✓ Livestock Confinement | ✓ Geothermal Power Plants |
| ✓ Wastewater Treatment | ✓ Manure Storage | ✓ Tanneries |
| ✓ Coke Ovens | ✓ Extruded Rubber Facilities | ✓ Land Fills |

Visit our website: www.macurco.com

Questions or Comments? Email info@aerionicsinc.com or Call 877-367-7891

Aerionics Inc. 3601 N. St Paul Ave Sioux Falls, SD 57104

To unsubscribe from future Technical Newsletters email info@aerionicsinc.com



Made in the USA