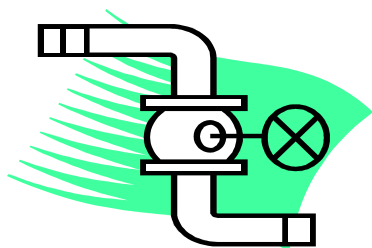


H2S

Presented by: Albert Pelasai

H2S Awareness

How Is Hydrogen Sulfide Formed?



H₂S is a by-product formed when organic matter decays.

Hydrogen Sulfide is generated as a common by-product of industrial and manufacturing processes.

Hydrogen Sulfide is formed under low oxygen conditions when sufficient amounts of sulfur and bacteria are present. H₂S can be formed in many places such as:

- **Oil and gas reservoirs.**
- **Sewers and sewage processing facilities.**
- **Dark damp places where bacteria is present.**

Where Is Hydrogen Sulfide Found?

Hydrogen Sulfide can be found almost anywhere that oil, water, and gas are produced.



Examples are:

Production Separators

Vapor Recovery Units

Sulfur Removal Systems

Flotation Cells

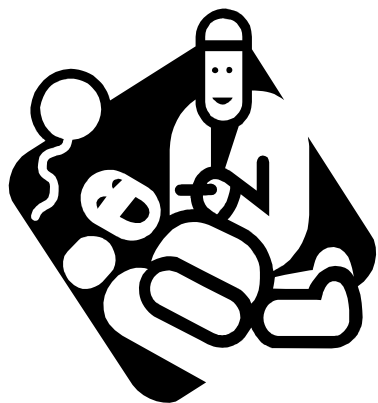
Water Knock-Outs

Wellheads or Tanks

Heater Treaters

Pits, Cellars or Sewers.

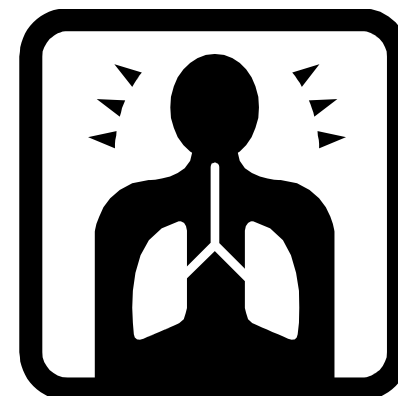
What are the Health Hazards of H₂S?



Hydrogen Sulfide can have an array of health effects on the body depending on exposure concentrations.

H₂S will enter through the lungs and is considered a chemical asphyxiate.

It blocks the transfer of oxygen to the blood cells and causes paralysis of the respiratory system.



Exposure Limits



Here are the Hydrogen Sulfide (H_2S) exposure limits.

Permissible Exposure Limit: 10 ppm for an 8-hr period avg.

Short Term Exposure Limit: 15 ppm for a 15-minute avg.

Immediately Dangerous to Life or Health: 100 ppm

Escape Guidelines:

Should a release occur here are some escape guidelines you must follow.

- **Know the alarm systems.**
- **Know where the potential sources for H₂S are located.**
- **Know the wind direction at all times.**
- **Escape by getting upwind to a higher elevation (if possible) from the source.**
- **When escaping, always go cross wind and around the source.**
- **Never go directly upwind (you may be running into the source).**