

Hydrogen Sulphide in the Oil & Gas Industry:

Impacts, Traits & Protection

Hydrogen Sulphide (H2S) is a highly toxic gas that is one of the most commonly occurring substances in the oil and gas industry. From industrial processing of natural gas, to desulphurization of crude oil, to storage and transport, H2S can arise suddenly in lethal concentrations that are undetectable to the human nose. Employees can stay safe by understanding the effects of H2S at rising exposure levels and tips for proper measurement and protection.

The Impacts of H2S Exposure on the Body

Even low doses of H2S can be harmful, damaging the lungs and the central nervous system and causing skin and mucous membrane irritation.

Typical symptoms of H2S poisoning are headache, fatigue, dizziness, dry mouth, anxiety, agitation, confusion, lack of coordination and sensory problems.



What Happens as H2S Levels Rise?



H2S Exposure Protection Tips



Identify Sources of Danger

Before starting work, identify typical H2S formation places—such as pipes, wells and valves particularly when working in confined spaces.



Wear Personal Protective Equipment

Never enter nor attempt rescue in a work area where H2S may occur without first donning the proper personal protective equipment, including respiratory protection, safety glasses and protective clothing.



Measure for Safe Levels

Always take a H2S reading before starting work, and be sure workers carry mobile gas detectors, especially in confined spaces, such as holes, pits and shafts.



Ensure Ventilation is Available

Make sure the work area is sufficiently ventilated.



Become Familiar with Safety Information

Learn—and if possible, memorize—the escape and rescue plan of the plant. Become familiar with local safety regulations and required protective equipment.

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