

# Hydrogen Sulfide (H<sub>2</sub>S) Ouick Facts

Hydrogen sulfide  $(H_2S)$  is a colorless gas that is naturally occurring in groundwater. It has a rotten-egg odor and is also known as sewer gas or swamp gas. People can smell the odor of  $H_2S$  at very low levels. Sensitivity to  $H_2S$  odor can be different for each person. People who have been exposed to the gas for a while may not be able to smell it because they can get used to the smell.

## How can I be exposed to H<sub>2</sub>S?



People are most likely exposed to  $H_2S$  by breathing it in. People may be exposed where they work or live.



People who work in or live near pulp and paper mills, natural gas drilling and refining operations, wastewater treatment plants, and landfills can be exposed to higher levels of H<sub>2</sub>S than the general population.



Household exposure to H<sub>2</sub>S can occur through misuse of drain cleaners, dry sewer traps, or by the presence of sulfur reducing bacteria in the plumbing system or groundwater.

## Does H<sub>2</sub>S remain in the body after exposure?



- The human body does not store or build up H<sub>2</sub>S.
- H<sub>2</sub>S leaves the body through urine.

# How can H<sub>2</sub>S affect health?



- Breathing air containing low amounts of H<sub>2</sub>S over a period of time can cause nose and throat irritation and headaches.
- Breathing air containing extremely high amounts of H<sub>2</sub>S can cause you to faint and can negatively impact your respiratory tract, nervous system, and brain.
- There is no evidence that H<sub>2</sub>S causes cancer in humans.
- There is no evidence that H<sub>2</sub>S causes asthma. However, breathing in H<sub>2</sub>S may worsen asthma symptoms.

## If I can smell H<sub>2</sub>S, does it mean it can affect my health?



- Smelling H<sub>2</sub>S does not mean that it will affect your health. People can often smell H<sub>2</sub>S at levels below those that can increase risk of harmful health effects.
- However, high levels of H<sub>2</sub>S in the air may not be noticed by smell. Breathing in extremely high amounts of H<sub>2</sub>S can cause your sense of smell to stop working temporarily. Additionally, you may not be able to smell H<sub>2</sub>S if you have been smelling it for a while.

### What if I am concerned about exposure to H<sub>2</sub>S?



- Having one of the health problems listed on this fact sheet does not mean that you have been exposed to H<sub>2</sub>S or that the health problem was caused by H<sub>2</sub>S.
- Talk to your health care provider about your health concerns.
- If you have questions or concerns about H<sub>2</sub>S exposure, call the MDHHS Environmental Health Hotline at 800-648-6942.

### Want to know more?

Michigan Department or Health & Human Services

Call the MDHHS Environmental Health Hotline at **800-648-6942** or visit **Michigan.gov/EnviroHealth.**