

Effects of Hydrogen Sulfide H₂S

PPM	EFFECT TIME
.00011-33	Typical background concentrations.
0.01-1.5	Odor threshold – rotten egg smell.
10	Permissible Exposure Level – 8 Hours.
20 -30	Possible fatigue, loss of appetite, headache, irritability, poor memory, dizziness. Intense odor. Above 30ppm odor is sweet or sickeningly sweet.
50 -100	Mild Irritation - eyes, throat – 1 Hour.
100	Coughing, eye irritation, loss of smell 2-15 minute. Altered breathing, drowsiness 15-30 minutes. Throat irritation 1 hour. Symptom severity increases. Hemorrhage & Death 48 hours.
100-150	Loss of smell (olfactory fatigue or paralysis).
200-300	Significant Irritation. Marked conjunctivitis & respiratory tract – 1 Hour. Pulmonary edema may occur from prolonged exposure 48 hours.
500 - 700	Staggering, unconsciousness in 5 minutes. Serious eye damage, 30 minutes. Death 30-60 minutes.
700-1000	Rapid unconsciousness, “knockdown” or immediate collapse 1 to 2 breaths. Breathing stops. Death within minutes.
>1000	Nearly instant Death.



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258 PU-22-391 Filed 05/09/2023 Pages: 1

Exhibit W166 - Grain Handling Safety Coalition - effect of H₂S effect time
Intervenor John H. Warford, Jr., as Trustee of Revocable Trust

Grain Handling Safety Coalition
www.grainsafety.org

W166