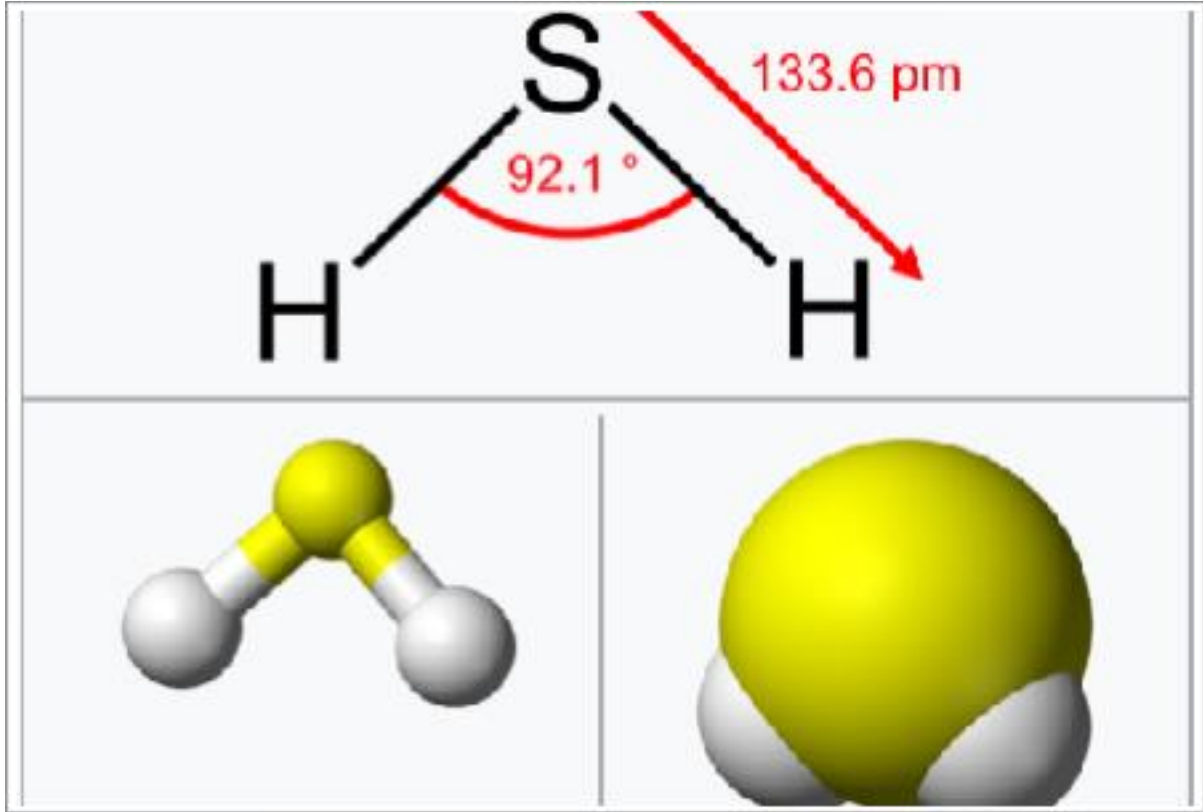


H₂S REMEDIATION PROTOCOL



ERGOFITO NATURAL SOLUTIONS

PREAMBLE:

Hydrogen sulfide is the chemical compound with the formula H₂S. It is a colourless gas with the characteristic foul odour of rotten eggs. It is very poisonous, corrosive, and flammable.

Hydrogen sulfide often results from the microbial breakdown of organic matter in the absence of oxygen gas, such as in swamps and sewers; this process is commonly known as anaerobic digestion. H₂S also occurs in volcanic gases, natural gas, and in some sources of well water. The human body produces small amounts of H₂S and uses it as a signalling molecule.

Swedish chemist Carl Wilhelm Scheele is credited with having discovered hydrogen sulfide in 1777.

H₂S IN AIR TESTING PROTOCOL:

It is necessary to assure contact between the H₂S gas and vaporized Ergofito and water mix. The mix ratio of water and Ergofito Bioflush is 1:100, for every 1Kg of Ergofito Bioflush, we require 100 litres of water. Mix both well, the mix is now ready to be used.

The application between H₂S and the above mentioned mix needs to be vaporized by means of a low pressure sprayer or a scrubber. For a simple test a hand spray bottle can be used. H₂S elimination will be within seconds, in order to work out the mix volume required, we recommend a guiding formula of 100 grams of H₂S to 100 grams of Ergofito/water mix.

H₂S IN WATER TESTING PROTOCOL:

Place the H₂S contaminated water in a vat. Add aeration to ensure that Dissolved Oxygen level is at 3mg/L or above. Apply pure Ergofito Bioflush at a guiding formula of 10 grams of Ergofito Bioflush per 50 liters of water. As at this point the H₂S level is unknown so only the above guideline can be given.

It is recommended to use an electronic instrument to measure the H₂S abatement as if a standard test kit is used, additional discoloration brought in by Ergofito Bioflush will affect the reading as Ergofito is black and will darken the water, hence falsify the test. The H₂S odour will disappear within seconds of Ergofito Bioflush application, proving that remediation has occurred.

H₂S IN WATER AND AIR COMBINED:

When a container receives H₂S contaminated water, it emanates a large amount of H₂S in the air. It is then desirable to treat the water and eliminate all emanations at the same time. In this case we apply the H₂S air application while ensuring that all sprayed Ergofito Bioflush and water mix is absorbed by the vat containing the H₂S contaminated water. basically we need to apply to product like a scrubber with no recirculation.



CONCLUSION:

Ergofito Bioflush is able to eliminate H₂S biologically. A natural transformation occurs whereas amino acids and proteins are produced via Ergofito Bioflush. Any testing where colour chart comparison is used will not reflect the correct levels due to the dark colour of Ergofito Bioflush.