



ProKa 2500

Odor and Corrosion Control Technology

Primary Applications: Wastewater treatment plants: lift stations, wet wells, sewer lines, clarifiers, solids holding tanks, thickeners, traps and anoxic lagoons or basins. Fume stack scrubbers. Product may be used in misting and fogging applications.

Benefits: Odor Control (H₂S, Mercaptans, Organic Acids)

Hydrogen sulfide (H₂S) is a colorless, toxic gas with a foul, pungent odor similar to that of rotten eggs. Often referred to as sewer gas, H₂S is a result of the anaerobic breakdown of sulfates by *Desulfovibrio desulficans* bacteria in an anoxic environment. Controlling this gas is one of the most challenging aspects facing the municipal and industrial wastewater treatment industry today. The gas is highly toxic to humans and will breakdown to corrosive sulfuric acid. Exposure to as little as one part per million (PPM) of H₂S can cause irritation to the eyes and respiratory system. At 500 PPM, reasoning and balance is compromised, and exposure to the gas becomes fatal at levels above 700 PPM.

SOLUTION

ProKa 2500 odor eliminator is a superior, multiple action product, which effectively eliminates a wide variety of offensive odors caused by the degradation of organic matter. **ProKa 2500** encapsulates the sulfide gas so much less of it can be expressed into the air plus, it retards the activity of *desulfovibrio desulficans* bacteria, which is a predominant producer of H₂S, without the toxic effects associated with other technologies. *Desulfovibrio desulficans* bacteria are generally located in anaerobic areas of various areas of the sewer or wastewater treatment system. Once retarded, the sulfur reducing bacteria can not reduce sulfates to mercaptans and sulfides.

APPLICATION

ProKa 2500 was developed to eliminate the production of H₂S and organic acids in wastewater collection and treatment systems. In order to be effective, strategic feeding points must be identified within the sewer or wastewater treatment system. When feeding **ProKa 2500** into wastewater with H₂S present, the product will encapsulate the sulfide and prevent it from being expressed. Also, **ProKa 2500** will inhibit future production of hydrogen sulfide by offering an alternative oxygen source to the sulfate reducing bacteria. The increased oxygen will aid in oxidizing the sulfide to elemental sulfur.

Additionally, when combined with an effective bacterial seeding program, odor and COD generated from reduced sulfur compounds, organic acids and mercaptans can be efficiently mitigated. Odor type and intensity are the key factors affecting **ProKa 2500's** feed rate and frequency. With experience, users will be able to determine the optimum dose rates for their particular situation. Consult your sales representative for precise dosing information.



OPERATING CONDITIONS

pH 5.5-9.0 optimum 6.5-7.5
Temp. 5°C - 60°C

AVAILABILITY

5 gallon pails, 55-gallon drums 330-gallon tote bins or in a bulk liquid tanker of 1000 gallons or above.

CAUTION

Avoid direct skin contact. In the event of direct skin or eye contact, flush affected area with water. If irritation persists, contact a physician.

DISCLAIMER

There are no performance warranties expressed or implied via this information. 4G shall not be held liable for any damages that may result from the presence or application of the product described herein.