



ALKAGEN® SOLUTION - ODOR AND CORROSION CONTROL IN WASTEWATER TREATMENT APPLICATIONS

ALKAGEN® solution is a unique, proven product that uses alkaline technology to cost effectively control odors and corrosion in wastewater systems. It reduces the impact of FOG (fats, oils and grease) in collection and treatment systems and the dissolved sulfide load on treatment plants, providing significant operational and cost advantages over other alkaline enhancement products.

ALKAGEN solution is a rapid dissolving/controllable pH shift technology that provides sulfide control within seconds from the application point. Whereas, magnesium hydroxide can take up to 2 hours to dissolve.

ALKAGEN shows an industry-leading dissolution of <5 seconds vs. 20-60 seconds for other lime slurries.

ALKAGEN solution controls atmospheric and dissolved sulfide in wastewater conveyance and treatment systems using alkalinity supplementation and sulfide prevention.

TYPICAL PHYSICAL PROPERTIES

Chemical Analysis	43-47% Ca(OH) ₂
Appearance	White, free flowing suspension
Odor	Odorless
Viscosity	<400 cP
Specific Gravity	1.35 at 20°C
Density	11.2 lb/gal at 20°C
Freezing Point	0°C
pH	Buffered at 12.4
Speed of Dissolution (t90)	<5 seconds

Typical properties are listed for information only, and are not to be considered as specification requirements. These items are not analyzed on a routine basis.

Typical Applications

- Force mains/Pressure mains
- Gravity interceptors
- Lift Stations
- WWTP Headworks
- WWTP Basins

Proper dosage (as determined by Evoqua Water Technologies) of ALKAGEN solution provides a non-hazardous alkalinity supplement which is used to increase the pH of wastewater to 9.0, or the required pH value deemed necessary by the individual system to control the release of hydrogen sulfide in the atmosphere. ALKAGEN solution also reacts with fats, oils, and grease, to help minimize the accumulations of these deposits at the point of application.

Typical Feed Requirements

Treatment is typically applied in a collection system or wastewater treatment facility upstream of the odorous control point. From a carefully selected point(s), the benefits will spread throughout the collection system into the treatment plant. The application has been proven to rapidly reduce atmospheric hydrogen sulfide, reduce FOG in the collection system and provide a beneficial alkalinity supplement for the biological treatment process within the wastewater treatment plant.

For additional treatment information, including dosage specific to your application, please contact your Evoqua Water Technologies representative.

Storage and Handling

ALKAGEN solution is environmentally safe. It contains no hazardous substances as defined by the CERCLA list of reportable quantities and the OSHA Hazard Communication Standard (29 CFR 1910.1200). The main component is calcium hydroxide which is a stable, safe compound found in nature.

Product can be stored outdoors in ambient conditions. Follow all local, state and federal regulations for storage. Do not dump on the ground or release into any body of water. All disposal methods must be in compliance with all Federal, State, Local and Provincial laws, and regulations. Regulations may vary in different locations.

See Material Safety Data Sheet for additional safety and handling information before storing or handling ALKAGEN solution.

Packaging

ALKAGEN solution is normally shipped in 4,000 gallon bulk tanker loads. For further information, please contact your Evoqua Water Technologies representative. For reorders and customer service, call 1.800.345.3982.



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