

## Alkagen® Solution: Cost-Effective Odor & Corrosion Control

### GENERAL INFORMATION

Alkagen® solution is a unique, proven product that uses alkaline technology to cost-effectively control odor 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.

As a rapid dissolving/controllable pH shift technology, Alkagen solution provides sulfide control within seconds from the application point. Other pH shift technologies, such as magnesium hydroxide, can take 30 minutes or longer to dissolve. In addition, Alkagen solution demonstrates an industry-leading dissolution of <5 seconds vs. 20-60 seconds for other lime slurries.

### SYSTEM DESIGN

The storage and distribution system for Alkagen solution is engineered for optimal performance with a robust submersible mixer that generates maximum agitation with minimal use of energy. The agitation generated from the mixer maintains the suspension of slurry solids throughout the entire volume of chemical. This allows the mixer to be turned off periodically during the day, decreasing annual power usage by up to 24%.

### INSTALLATION & MAINTENANCE

The mixer cage can be assembled and tested outside the tank for ease of installation and maintenance. The robust mixer also prevents solids from settling and plugging feed lines, reducing unplanned maintenance visits and ensuring reliable performance. In addition, a pressure relief valve reduces pressure buildup within the system for increased safety when performing maintenance.

### 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.



### FEATURES & BENEFITS

- Controls atmospheric and dissolved sulfide to reduce odors and corrosion
- Fast acting with sulfide control within seconds from the application point
- Minimizes the accumulation of fats, oils and grease in collection and treatment systems
- Provides a beneficial alkalinity supplement for the biological treatment within the WWTP

### APPLICATIONS

- Force mains/pressure mains
- Gravity interceptors
- Lift stations
- WWTP headworks
- WWTP basins

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

## STORAGE & HANDLING

Alkagen® solution contains no hazardous substances as defined by the CERCLA list of reportable quantities.

Alkagen solution 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 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.



## TYPICAL PHYSICAL PROPERTIES

Chemical analysis	42-47% lime solids
Appearance	White, free-flowing suspension
Odor	Odorless
Viscosity	<600 cps
Specific gravity	1.34 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.



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