



pHlex-WaterSafe60 Technical Data Sheet

DESCRIPTION:

pHlex-WaterSafe60 is an Environmentally Friendly and fully functional replacement for traditional acids commonly used in water treatment, well servicing, and drilling.

SUGGESTED USES:

- Well Cleaning Aid
- Descaler
- Drilling Fluid
- Pipe Cleaning Aid
- Corrosion and Scale Control
- Well Drilling Aid
- pH Adjustment
- Well Rehabilitation Aid

Maximum Use Level

- Refer to Use Instructions for specific use levels

CLASSIFICATIONS:

- FDA- GRAS.
- Non-DOT Regulated.
- OSHA-None of the chemicals in this product are considered highly hazardous by OSHA.
- California Prop 65-No Significant Risk Level: None of the chemicals in this product are listed.
- Clean Water Act:
 - None of the chemicals in this product are listed as Hazardous Substances under the CWA.
 - None of the chemicals in this product are listed as Priority Pollutants under the CWA.
 - None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
- Clean Air Act:
 - This material does not contain any hazardous air pollutants.
 - This material does not contain any Class 1 Ozone depleters.
 - This material does not contain any Class 2 Ozone depleters.
- Kosher PAREVE
- NSF 60

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pHlex-WaterSafe60 Use Instructions

Well Cleaning Aid:

Calculate the approximate volume of the system to be cleaned including the volume of the casing, screen, bore hole annulus, and all associated plumbing. Inject the calculated volume of fluid into well at desired concentration after verifying that supply connections are shut off or otherwise disconnected. Allow product to work for sufficient amount of time (at least 30 minutes). Following use purge the system until pH returns to normal levels or until at least twice the volume injected is removed. If necessary, sanitize the well following treatment. Maximum dosage 20 gallons Watersafe60 per 1000 gallons water.

Drilling Fluid:

When used as a drilling fluid Watersafe60 will help to prolong the life of your equipment and enhance drilling efficiency by softening hard minerals and formations. Additives can be used as necessary to further enhance the performance of Watersafe60. Polyacrylamide or guar based gums may be used to increase viscosity. It is recommended that bench testing be performed to ensure compatibility of any additives. Refer to SDS for list of known Incompatible materials. Do not alter your drilling procedure. When purging the well check pH to ensure it returns to normal levels. Recommended Dosage: 100-150 gallons Watersafe60 per 1000 gallons water

Pipe cleaning aid:

Product may be used at concentrations up to 100% depending on severity of fouling. Close off or disconnect section of pipe to be cleaned. Drain and fill with Watersafe60 at desired concentration. It is recommended for effective cleaning to use at no less than 15% dilution strength. Allow product to work for at least 30 minutes or longer as necessary. Drain and flush pipes with fresh water checking pH to ensure it returns to normal before reestablishing connections. Recommended Dosage: 175-500 gallons Watersafe60 per 1000 gallons water

Well drilling aid:

When used as a Well drilling aid Watersafe60 will help to prolong the life of your equipment and enhance drilling efficiency by helping to soften hard minerals and formations. Simply replace a portion of the water used in your drilling fluid with the desired percentage of Watersafe60. Do not alter your drilling procedure. When purging the well check pH to ensure it returns to normal levels. Recommended Dosage: 50-150 gallons Watersafe60 per 1000 gallons water

Well rehabilitation Aid:

Calculate the approximate volume of the system to be cleaned including the volume of the casing, screen, bore hole annulus, and all associated plumbing. Inject the calculated volume of fluid into well at desired concentration after verifying that supply connections are shut off or otherwise disconnected. Allow product to work for sufficient amount of time (at least 30 minutes). Following use purge the system until pH returns to normal levels or until at least twice the volume injected is removed. If necessary, sanitize the well following treatment. Maximum dosage 20 gallons Watersafe60 per 1000 gallons water.

Corrosion & Scale Control:

For use to inhibit corrosion and control scale product must be dosed into system using an injection or metering pump. Effective product dosage is based on a variety of factors. For general corrosion and scale control in systems with normal or below normal water hardness recommended dosage is

Between 2-10 mg/L. In systems with high levels of mineral hardness dosages up to but not exceeding 80 mg/L may be used. It is best to start at a lower dosage and periodically inspect for scale buildup to determine if higher dosage levels are necessary.

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pH Adjustment:

For use to control and adjust the pH of a system it is recommended that your process control system feature pH probes upstream and downstream of product injection point for best accuracy. It is suggested that a bench titration be performed to determine use level for your specific system as the effect on pH will be varied dependent upon water quality. In most cases less Watersafe60 will be needed in comparison to mineral acids to perform the same adjustment. Maximum use Level is 80 mg/L

Descaler:

OFF-LINE USE:

Product may be used at concentrations up to 100% depending on severity of fouling. Isolate equipment or pipe to be cleaned. Drain and fill with Watersafe60 at desired concentration. It is recommended for effective cleaning to use at no less than 15% dilution strength. Allow product to work for at least 30 minutes or longer as necessary. Drain and flush pipes with fresh water checking pH to ensure it returns to normal before reestablishing connections. Recommended Dosage: 175-500 gallons Watersafe60 per 1000 gallons water

ON-LINE USE:

For on-line use for scale removal and control product must be dosed into system using an injection or metering pump. Effective product dosage is based on a variety of factors. For adequate scale removal and control in systems with normal or below normal water hardness recommended dosage is between 2-10 mg/L. In systems with high levels of mineral hardness dosages up to but not exceeding 80 mg/L may be used. It is best to start at a lower dosage and periodically inspect for scale buildup to determine if higher dosage levels are necessary.