

AcidSafe80

THE WORLDS ONLY SYNTHETIC ACID
OUTSTANDING PERFORMANCE WITH
UNRIVALLED SAFETY

PERFORMANCE
INNOVATION
SAFETY **rezisafe**
A REZITECH DIVISION

AcidSafe 80 is a revolutionary product outperforming all acids in the market whilst simultaneously removing the dangers associated with these harsh chemicals. This unique mix of performance and safety is possible through the patented technology known as SynTech, the world's only synthetic acid.

SynTech carries a triple-zero HMIS score, is rated non-corrosive, non-fuming, 100% biodegradable, non-mutagenic to fish and wildlife.

With that said, SynTech outperforms hydrochloric acid formulations in a wide variety of industries every day. Acidsafe 80 can be used for a variety of descaling, cleaning and corrosion control uses and is certified to NSF/ANSI 60 specifications for use on potable water systems and wells. AcidSafe 80 has no harsh smell or dangerous fumes and has been proven to pose no inhalation risk, exceeds all ADG and OSHA requirements and requires no secondary containment.

Key Product Features

- Superior Relative Acid Strength (pH 0)
- Unrivalled Descaling Performance
- Industrial Strength Cleaning Chemical
- 100% Acid Free
- Non-Corrosive on many metals
- Non-Skin Irritant
- Non-Dangerous Good
- Safe Manual Handling
- Triple Zero HMIS Score
- No GHS Pictograms
- Biodegradable
- NSF 60 Approved for potable water



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 AcidSafe 80 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: 600L - 2200L AcidSafe 80 per 4kL 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.

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.

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 AcidSafe 80 will be needed in comparison to mineral acids to perform the same adjustment. Maximum use Level is 80 mg/L

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 80L AcidSafe 80 per 5kL water.

Pipe cleaning aid:

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 AcidSafe 80 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 re-establishing connections. Recommended Dosage: 600L - 2200L AcidSafe 80 per 4kL 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 80L AcidSafe 80 per 4kL of water during drilling procedure. When purging the well check pH to ensure it returns to normal levels. Recommended Dosage: 400-550L of AcidSafe 80 per 4kL of water.

TECHNICAL DATA

NITRATE LEVEL	0% (None)
FORM	Liquid
ODOR	Mild Soapy Odor
COLOR STABILITY	-32°C
DETERGENCY	Moderate
TOXICITY	Non Toxic
WETTING ABILITY	Excellent
STORAGE ABILITY	1 Year+
SPECIFIC GRAVITY	1.15+-0.04
SHIPPER REGULATIONS	None
FLASH POINT	None
BOILING POINT	100°C
SOLUBILITY IN WATER	100%
BIODEGRADABLE	Yes / 100%
VOLATILE BY VOLUME	NA
CARCINOGENS	None
VISCOSITY	Thin
COLOR	Colourless to light yellow

AcidSafe 80 has a shelf life of more than one year. Product is freeze/thaw stable. Keep container closed when not in use. Safety glasses are suggested when handling this product. No special gloves or protective equipment are required. Due to the product's low pH, aluminium piping and fittings should be avoided. Consult your authorised representative for tank, piping, valve, hose coupling and fitting recommendations.

Acidsafe 80 is typically sold in 1000L totes but can be packaged into smaller containers as well as bulk delivery. Rinse empty container and discard as per federal, state and local regulations.