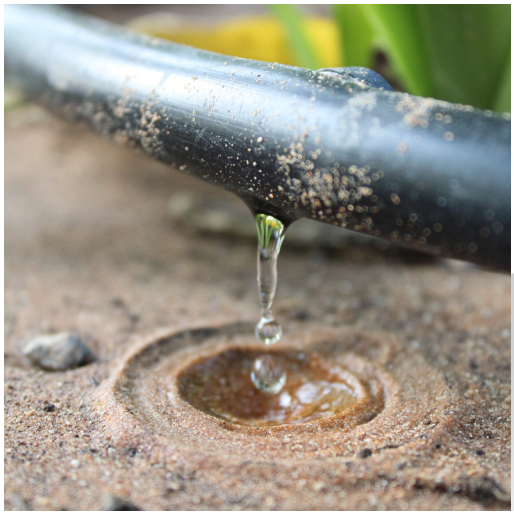
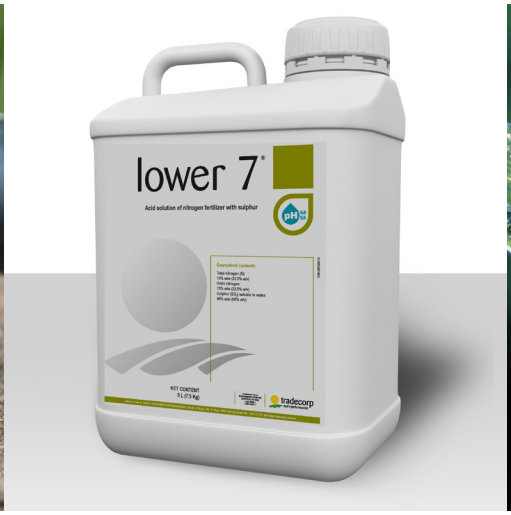
lower 7

The safer solution for irrigation line cleaning, water acidification (pH correction) and water conditioning





DESCRIPTION

- pH 0.0 water conditioner with the highest safety profile of concentrated acids
- Urea chemically bonded to Sulphuric Acid provides higher safety during handling than other water conditioners on the market
- Neat solution becomes a full strength acid after dissolving in water
- Unblocks and maintains irrigation equipment
- Beneficial when used as part of a regular maintenance program
- Suitable for bulk water pH adjustment and bicarbonate removal
- Production facilities certified to ISO 9001 & ISO 14001
- 20 L & 1000 L (other sizes available if forecasted)

TECHNICAL SPECIFICATIONS

- Nitrogen (N):	22.5% w/v
- Sulfur (S) soluble in water:	24.0% w/v
- pH:	0.0
- Presentation:	Soluble Liquid

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MAIN BENEFITS

- Aids compliance with OHS regulations to protect your staff
- Highest safety profile when handling concentrated product
- Effectively unblocks and cleans irrigation equipment removing precipitates
- Increases fertigation efficiency through the neutralisation of bicarbonates
- Improves irrigation water quality solubilising impurities especially recycled water systems
- Provides a source of Nitrogen (N) and Sulfur (S)
- Aids in Saline & Sodic soil management through increased leaching of Sodium and other associated ions

DOSAGE AND METHOD OF USE

METHOD	TARGET pH	TYPICAL RATE	COMMENTS
WATER ACIDIFICATION			
Auto pH Control	5.5 - 6	0.1 - 0.2 L /m^3	1. Dilute in Acid Tank at 10 - 20% (10 - 20 L Lower 7 /100L water). 2. Set to desired pH on auto injector and switch on the injector will adjust rate automatically. 3. 1L Lower 7 contains 225 g /L Nitrogen and 240 g /L Sulfur adjust nutrient regime accordingly.
Manual pH Control			1. Inject 0.1 - 0.2 L Lower 7 per m^3 water. 2. Adjust flow meter to achieve target pH along the drip line. 3. 1L Lower 7 contains 225 g /L Nitrogen and 240 g /L Sulfur adjust nutrient regime accordingly.
LINE CLEANING & UNBLOCKING			
Line Cleaning (Between Crops)	3	2 - 5 L /Ha	1. Adjust injection to pH 3. 2. Continue irrigating until acidic water is present throughout the lines. 3. Switch off irrigation and leave to macerate blockages overnight (or run for several hours).
Line Maintenance (In Crop)	4 - 4.5		1. Adjust injection to pH 4 - 4.5. 2. Irrigate for 30 minutes (once water reaches 80% length of line). 3. Flush for 30 minutes with water pH 6 - 7.
WATER CONDITIONING (BULK IRRIGATION)			
Sprinkler Pivot	-	0.3 - 1 L /10000 L	1L /30000 L water where impurities are low. 1L /20000 L water for medium levels of impurities. 1L /10000 L water for high levels of impurities.

BICARBONATE NEUTRALISATION

		Bicarbonates		Target pH	
		mg /L (ppm)	meq /L	5.8	5.5
				mL /Lower 7 Required / 1000 L	
Bicarbonate Content Calculation	5.5 - 5.8	50	0.82	45	50
		100	1.64	90	100
		200	3.28	170	200
		300	4.92	260	290
		400	6.56	340	380
		600	9.84	510	570
		800	13.12	680	760

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