



**KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING**

# KleenLine™

The drip line cleaning solution



50% Amino Dihydrogen Sulphate



**1000L**

# KleenLine provides a 3-way action by way of drip irrigation cleaner, soil and water acidifier, and fertiliser.

## DIRECTIONS FOR USE:

**Application to manage irrigation systems with automatic pH controllers:** Adjust the nutrient solution to a pH of between 5 and 6. The automatic controller will determine the dosage of KleenLine, which depends on the bicarbonate level in the irrigation water and its pH.

**Application to manage irrigation systems with manual control dosage through an injector:**

In general apply an average dosage of 25-30 mL of KleenLine per 1000 L of water. Each litre of KleenLine supplies 225 gm of Nitrogen and 240 gm of Sulphur. This must be taken into account as part of the fertiliser requirement for the situation.

**Application to unblock drippers:** An impact treatment involves reducing the water pH level to 3-4 (for organic based blockages) or 2.5-3 (for mineral based blockages) for a minimum period of 3 hours. This could involve a total of 10-20 L/ha, depending on the water quality and severity of blockages. A program approach to unblocking drippers, especially where significant blockages exist, would be as follows:

- 1) Open up end lines and flush with water for 20-30 minutes. Then close end lines.
- 2) Inject KleenLine into irrigation water until the mixture has reached the very end dripper. This is usually between 20-40 minutes, depending on the pump output.
- 3) Close the injection unit, turn pump off and leave overnight.
- 4) Next day, open up end lines and flush out with water for 20-40 minutes. Then close end lines. This should remove the deposits from the irrigation pipes.
- 5) Inject KleenLine into irrigation water for about an hour (or longer depending on the severity of the emitter blockages). Stop injecting KleenLine.
- 6) Continue injecting irrigation water for a period afterwards to ensure all emitters are working properly. If emitters are not operational, then consider replacing these emitters. *[Note: If this cleaning is at the end of season, then only inject for about 10 minutes and then shut off system. This should allow a portion of KleenLine to remain in the lines over the winter period to minimise further algae growth or calcium build up.]*

**Application to manage drip irrigation systems:** Inject KleenLine into the irrigation system at 2 – 10 L/ha. Rates will depend on water quality (pH) and water source (i.e. bore water vs river water).

**Note:** Flush times may vary depending on the irrigation system.

## COMPATIBILITY

Do not mix KleenLine in the same tank with other chemical products without previously testing them in a bucket to confirm compatibility. Do not mix with ammonia based fertilizers (monoammonium phosphate, ammonium sulphate, ammonium nitrate, calcium nitrate, ammonium polysulphide, calcium polysulphide, etc., and any chlorine based products). It is recommended to perform a test before mixing.

## WARNINGS

Although KleenLine is less dangerous as traditional acids, it must be managed with the same safety precautions as other corrosive materials. Store the product in its original container, in a dry place away from extreme temperatures and ammonia based fertilisers. Do not store the product near food or foodstuffs.

Keep out of reach of children. Harmful if swallowed. If it comes into contact with skin or eyes, wash immediately with water and seek medical assistance. Ensure correct protective clothing and gloves, as well as eye and face protection are used at all times. Do not inhale the released gas.

Use the product in accordance with this label. If in doubt, please contact your local agronomist or Agspec representative. If local experience is unavailable, it is recommended a small scale test application is conducted before widespread use.

## USE ONLY WHEN NECESSARY. DO NOT EXCEED APPLICATION RATES

**Conditions of Sale:** Agspec Australia Pty Ltd (Agspec) warrants that the product within the unopened container conforms to the chemical description on this label. As the occurrence of unusual environmental conditions and the use of this product, are beyond the control of Agspec, no guarantee, expressed or implied is made as to the effects of such use of the results obtained, and in no event shall the liability of Agspec exceed the price of the product used. The purchaser must assume all risks of storage, use or application of this product. Use of this product implies that the purchaser accepts these conditions of sale.



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