



## AgroAcid

*For pH management in agriculture and horticulture*

### Features and Benefits

#### A NEW SAFE, CLEAN ACID REPLACEMENT TECHNOLOGY

AgroAcid is a new revolutionary state-of-the-art acid replacement system. With the increasing use of alkaline bore-hole water and effluent water, more plant producers are facing the challenges that come from decreasing water quality and associated high pH.

High bicarbonate levels in irrigation and soil water locks up essential plant nutrients making them unavailable for plant uptake. High bicarbonate levels can also severely reduce water infiltration rates leading to salinity of the soil and dry soils. High soil pH can encourage diseases and create an environment unhealthy for plants.

AgroAcid replaces nitric or phosphoric and sulphuric acids and outperforms all harsh mineral acids. This is accomplished by using a synthetic acid that degrades the bicarbonates and carbonates present in the water and in soil.

AgroAcid is rated as non-corrosive, non-fuming, 100% biodegradable, and is classified as a skin non-irritant and non-mutagenic to fish and wildlife. Yet it outperforms conventional mineral acid formulations in a wide variety of situations.

#### AgroAcid:

- A non-hazardous replacement for mineral acids to correct irrigation water pH in hydroponics, fertigation and all types of growing systems.
- Removes alkalinity from the soil (increasing acidity).
- Improves nutrient availability in the soil, and helps soil structure (Flocculation).
- Is a specifically formulated cleaner for the flushing of unwanted deposits from the irrigation system.
- Used on a regular basis throughout the season, it will ensure that lines and sprinkler heads are kept free of lime scale build up and maintained in good working order.
- Can be used to clean spraying equipment, Pad & Fan systems, and glasshouses.

- Is non-hazardous and requires no specialist handling. It will not corrode equipment, rubber, glass, stainless, brass, PVC and nylon and it is harmless to plants and the environment.

## Directions for use

### Field application:

As a rule, use 4 litres AgroAcid to treat 100,000 litre water for a 1 pH unit decrease.

### Spray application to free up locked minerals in soil and reduce salinity:

Spray 40 litres with ample water and irrigate in with a minimum of 10mm water.

Repeat after two weeks. If sprayed over existing planting, irrigate immediately after spraying

### Inert growing media crops and NFT hydroponics:

Note

If using direct injection: add AgroAcid to reduce the bicarbonate ( $\text{HCO}_3$ ) hardness from the water.  $\text{HCO}_3$  levels are determined by water analysis. As a result of treating for hardness, the pH will fall to approximately the correct levels (pH 6.5).

Use at the rate of 1 litre AgroAcid per 100 litres of stock tank solution (further diluted 1:100 giving a total dilution of 1:10,000) to neutralize approximately 95 mg/litre (ppm) of bicarbonate ( $\text{HCO}_3$ ).

Examples of effects are shown below:

Dilution	pH	Sodium (ppm)	Bicarbonate (ppm)
Not treated	7.9	196	188
1 litre AgroAcid : 30,000 litres water	7.0	156	150
1 litre AgroAcid : 12,000 litres water	6.5	148	105

### Calcium removal from glass:

Use a dilution from 1:2 to 1:6

### Cleaning of Pad & Fan systems (remove Calcium stains):

For use with a sprayer dilute 1:6. Wait for one hour and rinse off with plenty of water. If used in the water reservoir of Pad & Fan systems; dilute 5-10 litres per 25,000 litres water. Keep this dilution more or less balanced, depending on the evaporation rate of the water.

### Cleaning of spraying equipment:

1 litre AgroAcid per 300 litres water.

### Pre-winter drain cleaning:

10 litres AgroAcid per 25,000 litres water. Leave to stand in the lines for 24 – 48 hours, during which time it will actively dissolve any deposits.

## General information

**Packaging:** 10 litre jerry can

**Shelf life:** 2 years

**Technical service:** For further information, assistance and access to The Solufeed Advisory Service, please contact Solufeed at the address below.

## Precautions

Avoid prolonged storage in temperatures above 35 °C.  
After mixing with water, apply within 12 hours  
To be kept in original container, closed and frost free.

AgroAcid is non-toxic to fish or animals when diluted correctly.  
In case of allergic reaction(s), treat symptoms and contact a doctor.  
Product is not intended for ingestion. In case of ingestion, seek medical attention  
If in eyes: rinse with ample water for 10 minutes at least.  
Wash hands after handling.  
Keep out of reach of children.

Detailed health and safety information may be found on the relevant Material Safety Data Sheet (MSDS) available on request from the address below.

## Important

The information in this document has been prepared carefully and is provided in good faith. The application, use and processing of any material together with regulatory compliance is the absolute responsibility of the Buyer. All technical information or other advice provided by the Seller in any form is given without warranty to the full extent provided by law.

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