

TECHNICAL DATA SHEET (TDS)

Product	ARCHER ACID	Document	Technical Data Sheet
Category	Organic acid pH regulator, desalinator and soil conditioner	Code	CEON-TDS-72-R05
Catalogue source	CEON catalogue PDF page 74	Status	Technical publication copy - final regulatory review required

1. Product identity and technical positioning

A concentrated organic-acid complex used to lower irrigation-water pH, manage carbonate deposits and support desalination of saline or sodic soils. It is designed for fertigation systems and hard alkaline waters.

Intended technical function

Organic acid pH regulator, desalinator and soil conditioner.

Physical form

Liquid acid complex. Appearance, density, pH, moisture and particle-size values are controlled by the approved batch specification and shall be reported on the batch COA.

2. Guaranteed analysis

Parameter	Specification
Polymaleic acid	28% w/v

Quality-control note

Declared nutrient or active-content values are catalogue specifications. Final release requires identity, appearance and relevant analytical checks against the approved master specification. No batch result is implied by this TDS.

3. Agronomic benefits and mode of use

- Reduces irrigation-water pH and supports EC/salinity management.
- Helps dissolve carbonate scale and reduce emitter blockage.
- Improves availability of macro- and micronutrients in alkaline conditions.
- Supports soil porosity, root development and fertiliser efficiency.
- Designed to replace aggressive mineral-acid handling in routine agricultural programmes, subject to local assessment.

4. Application programme

- General drip application: 15-20 L/ha; up to 50 L/ha in severe salinity.
- Water treatment without analysis: approximately 15-75 mL per 1,000 L, adjusted to measured pH/alkalinity.
- Soil application without salinity analysis: 20-50 L/ha.
- Use calibrated pH/EC measurements and inject through acid-compatible equipment.

Application principles

- Calibrate injection or spray equipment before use.
- Base the final rate on crop, growth stage, water quality, soil/leaf analysis, climatic conditions and local agronomic advice.
- Do not exceed the catalogue rate or the legal label of any tank-mix partner.
- Ensure uniform distribution and adequate water volume for the intended application.

5. Compatibility and tank-mixing

Add product to water slowly; never add water into concentrated product. Do not mix directly with hypochlorites, strong alkalis or incompatible concentrated fertilisers. Use acid-resistant PPE and equipment.

Recommended sequence

- Fill the clean tank partly with water and start agitation.
- Add water conditioners first where applicable, followed by dry products, suspension products, soluble concentrates and emulsifiable concentrates according to partner labels.
- Add organosilicone adjuvants near the end of filling.
- Complete with water and maintain appropriate agitation.

6. Packaging, storage and handling

Packaging: 1 L, 5 L, 10 L and 20 L commercial packs.

- Keep in the original, tightly closed and correctly labelled container.
- Store in a cool, dry and ventilated area away from direct sunlight, frost, excessive heat and incompatible materials.
- Keep biological products away from disinfectants and conditions that reduce viability.
- Prevent contamination of food, feed, seed and drinking water.
- Use appropriate gloves and eye protection during handling.

7. Technical limitations

- Performance depends on correct diagnosis, dose, timing, water quality and application coverage.
- Catalogue benefits are technical positioning statements and are not a guarantee of yield.
- Pesticidal or biological-control uses are subject to local registration, approved label and maximum-residue/worker-safety requirements.
- This document does not replace local legal labelling, product registration, crop-protection labels or professional agronomic advice.

8. Document control

Source reference: CEON Products Catalogue, PDF page 74. This Rev.05 document expands the catalogue information into a website/distributor technical format. Regulatory classification, local-language label, shelf life and market-specific claims must be approved before commercial issue.