

TECHNICAL DATA SHEET (TDS)

Product	BLUE DOWN	Document	Technical Data Sheet
Category	pH reducer, colour indicator, descaler and spreading adjuvant	Code	CEON-TDS-74-R05
Catalogue source	CEON catalogue PDF page 76	Status	Technical publication copy - final regulatory review required

1. Product identity and technical positioning

A multifunctional spray-water conditioner combining pH reduction, visible colour indication, carbonate-scale management and spreading/adhesion support for foliar applications.

Intended technical function

pH reducer, colour indicator, descaler and spreading adjuvant.

Physical form

Orange liquid concentrate. 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
Triprotic acid	70% w/v
Siloxane	29.95% w/v
Indicator	0.05% 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

- Changes solution colour as the target mildly acidic pH is approached.
- Protects sensitive pesticides and foliar nutrients from alkaline hydrolysis.
- Reduces surface tension and supports spray coverage, wetting and adhesion.
- Converts calcium scale into more soluble forms and helps keep nozzles clean.
- Reduces wash-off and evaporation losses from treated foliage.

4. Application programme

- General spray-water rate: approximately 25-50 mL per 100 L water.
- Add BLUE DOWN to the water before pesticides, fertilisers or growth regulators.
- Target a practical spray-solution pH around 5.5-6.0 unless the partner-product label requires otherwise.
- Use prepared mixtures promptly; catalogue guidance recommends use within 24 hours in the effective pH range.

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

Never mix concentrated product directly with alkaline materials, hypochlorites or reactive chemicals. Follow partner-product labels and perform a jar test. Do not over-acidify the spray solution.

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: 250 mL, 500 mL and 1 L 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 76. 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.