

# TECHNICAL DATA SHEET (TDS)

|                  |                                                             |          |                                                               |
|------------------|-------------------------------------------------------------|----------|---------------------------------------------------------------|
| Product          | SC-55                                                       | Document | Technical Data Sheet                                          |
| Category         | Anionic soil conditioner and compaction-management adjuvant | Code     | CEON-TDS-73-R05                                               |
| Catalogue source | CEON catalogue PDF page 75                                  | Status   | Technical publication copy - final regulatory review required |

## 1. Product identity and technical positioning

A commercial anionic soil-conditioning agent developed to reduce soil-water adhesion associated with compaction and hardpan. It promotes infiltration, aeration, available water and easier root penetration.

### Intended technical function

Anionic soil conditioner and compaction-management adjuvant.

### Physical form

Liquid soil-amending 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                 |
|------------------------------------------|-------------------------------|
| Active anionic soil-conditioning complex | Catalogue-defined formulation |

### 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

- Improves water infiltration and reduces runoff and standing water.
- Helps relieve compaction and hardpan without mechanical disruption alone.
- Increases soil aeration and biologically active pore space.
- Supports deeper, more uniform root development.
- May reduce irrigation frequency and improve fertiliser-use efficiency.
- Benefits can persist beyond the initial irrigation cycle, depending on soil type and management.

### 4. Application programme

- Soil application: typically 1-2 L/ha per year.
- Apply pre-plant, post-harvest or through irrigation where compaction/hardpan is diagnosed.
- Follow application with sufficient irrigation to move the product into the compacted zone.
- Rate and frequency should be adapted to soil texture, infiltration testing and crop system.

#### 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

Do not combine with strongly acidic or strongly alkaline concentrates. A jar compatibility test is required before mixing with fertilisers or crop-protection products. Avoid mixing with post-emergence herbicides unless compatibility is confirmed.

#### 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: Commercial liquid packs; confirm pack size on order.

- 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 75. 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.