

# TECHNICAL DATA SHEET (TDS)

|                  |                                                       |          |                                                               |
|------------------|-------------------------------------------------------|----------|---------------------------------------------------------------|
| Product          | BIO-REMEDY                                            | Document | Technical Data Sheet                                          |
| Category         | Botanical matrine/oxymatrine crop-support formulation | Code     | CEON-TDS-79-R05                                               |
| Catalogue source | CEON catalogue PDF page 82                            | Status   | Technical publication copy - final regulatory review required |

## 1. Product identity and technical positioning

A multi-herb botanical formulation, including Sophora flavescens-derived matrine/oxymatrine components, positioned for integrated management of mites, thrips and similar small pests while also supplying organic crop-support components.

### Intended technical function

Botanical matrine/oxymatrine crop-support formulation.

### Physical form

Liquid botanical extract. 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 |
|--------------------------|---------------|
| Total mixed herb extract | 40% w/v       |
| Organic matter           | 28% w/v       |
| Oxymatrine               | 21% w/v       |
| Total humic acid         | 9% w/v        |
| Organic polysaccharide   | 21% 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

- Botanical contact, stomach and systemic activity described in the catalogue.
- Supports management of red/white spider mites, thrips and related pests.
- Provides organic matter, humic components and polysaccharides alongside botanical actives.
- Supports crop resilience under drought, frost and disease pressure.
- Can be used in soil and foliar programmes where legally authorised.

### 4. Application programme

- Foliar: 50-100 mL per 100 L water.
- Soil/fertigation: 5-10 kg or L/ha according to commercial density and label.
- Apply when required to fruit trees, vines, vegetables, hydroponics, field crops, ornamentals and nursery plants.
- Ensure thorough spray coverage and repeat only within the locally authorised programme.

#### 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

Botanical pesticide claims may trigger local registration requirements. Do not use or market as a pesticide without authorisation. Conduct compatibility and crop-safety tests; avoid strong oxidisers and extreme pH.

#### 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 82. 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.