

TECHNICAL DATA SHEET (TDS)

Product	GOLD DRY	Document	Technical Data Sheet
Category	Kaolin-based crop-protection film with boron, manganese and zinc	Code	CEON-TDS-85-R05
Catalogue source	CEON catalogue PDF page 88	Status	Technical publication copy - final regulatory review required

1. Product identity and technical positioning

A kaolin-based foliar film product with boron, manganese and zinc, developed to reflect solar radiation, reduce heat/sunburn damage and support the cosmetic quality of fruit surfaces.

Intended technical function

Kaolin-based crop-protection film with boron, manganese and zinc.

Physical form

Wettable mineral powder. 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
Water-soluble Boron (B)	4% w/w
Water-soluble Manganese (Mn)	0.5% w/w
Water-soluble Zinc (Zn)	0.5% w/w
Kaolin mineral carrier	Formulation base; percentage not declared

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

- Forms a reflective protective film on leaves and fruit.
- Helps reduce excessive solar-radiation load and sunburn risk.
- Supports fruit-surface appearance, brightness and marketable quality.
- Supplies boron, manganese and zinc as supplementary foliar micronutrients.
- May help reduce cosmetic defects and associated market-value losses under high-radiation conditions.

4. Application programme

- Greenhouse vegetables: 100-150 g/100 L water at early planting when exposed to sunlight.
- Open-field vegetables, melons, industrial plants and field crops: 250-300 g/da, typically from the 3-5 leaf stage and repeated at about 20-day intervals after first fruit formation.
- Pome fruit: 150-250 g/100 L water during flowering and fruit growth, two applications.
- Stone fruit: 100-150 g/100 L water during flowering and fruit growth, two applications.
- Citrus, banana, fig, olive, vineyard and ornamentals: 150-250 g/100 L water according to the crop-stage guidance in the catalogue.

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

Maintain agitation to keep kaolin suspended. Ensure uniform coverage without excessive run-off. Conduct a jar test before mixing with pesticides, oils or foliar fertilisers. Avoid application where visible film residue is commercially unacceptable close to harvest unless washing/removal has been validated.

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: 2.5 kg pack.

- 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 88. 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.