

TECHNICAL DATA SHEET

HELEN

Document code	CEON-041-TDS-R05
Product category	High-analysis PK water-soluble fertiliser
Physical form	Fine white, fully water-soluble powder
Packaging	1 kg, 5 kg, 10 kg
Catalogue reference	CEON Product Catalogue, page 52

1. Product overview

A highly concentrated phosphorus-potassium fertiliser developed for periods when nitrogen input should be limited. Its very high PK content supports compact growth, flowering, fruit quality, root activity and crop resilience in cool or low-light conditions.

2. Guaranteed analysis

Declared component	Guaranteed content
Water-soluble phosphorus pentoxide (P2O5)	42% w/w
Water-soluble potassium oxide (K2O)	52% w/w

3. Agronomic positioning

- Supplies phosphorus and potassium without added nitrogen
- Supports flowering, fruit set, colour, aroma and storage quality
- Promotes compact plants with strong internodes and robust tissues
- Rapidly dissolves, including in cool water, and is suitable for fertigation or foliar use
- Low residue and low clogging risk when properly dissolved and filtered

4. Recommended application framework

Application route / crop group	Recommended framework
Foliar application	0.5-2.5 kg/ha, adjusted to crop and stage
Fertigation / soil drench	2.5-10 kg/ha per application
Vineyards and fruit crops	Use from pre-flowering through ripening according to programme
Vegetables	Use during flowering, fruit set and quality-building stages

Application rates are programme guidance derived from the catalogue and agronomic practice. The approved destination-market label, crop sensitivity, soil/leaf analysis, irrigation volume and local regulation take precedence.

5. Mixing and application procedure

- Fill the tank with 30-50% clean water and start agitation.
- Pre-dissolve the measured product in a separate clean container where practical.
- Add the solution slowly to the main tank while maintaining agitation.
- Add compatible plant-protection products only after a jar test and according to their label order.
- Complete filling with water, maintain agitation and use the mixture promptly.
- Flush fertigation lines and spray equipment with clean water after use.

6. Compatibility and precautions

Avoid mixing concentrated HELEN directly with calcium-rich or strongly alkaline stock solutions. Use separate tanks or sequential injection where precipitation risk exists.

- Do not mix concentrated fertiliser solutions together unless compatibility is confirmed.
- A small-scale jar test is required before new combinations.
- Avoid application during extreme heat, frost, drought stress or intense sunlight.
- Use clean, low-sediment water and appropriate filtration in drip systems.

7. Storage and shelf-life controls

- Store sealed in the original package in a cool, dry, ventilated place.
- Protect from direct sunlight, moisture, frost and excessive heat.
- Keep away from food, feed, children and unauthorised persons.
- Reseal opened packages immediately to avoid caking or contamination.
- Shelf life is governed by the approved commercial label and batch release documentation.

8. Quality control and release

Each batch should be released against an approved specification using validated analytical methods appropriate to the declared nutrient. Identity, appearance, solubility/moisture where relevant, nutrient content, packaging integrity, lot coding and traceability should be verified before dispatch.

9. Regulatory statement

This TDS is a technical and commercial support document. It is not a substitute for the legally approved product label, registration dossier, destination-country fertiliser regulation, batch COA or final SDS classification. Claims must be adapted to the authorised market.