

FROST-WAR

Frost-preventive potassium, magnesium and sulphur bio-activator

A liquid cold-stress support formulation combining potassium, magnesium, sulphur, free amino acids and salicylic acid. It is positioned for preventive use before frost events and for recovery support during cold-stress periods.

Catalogue reference: page 84 | Rev.05 professional technical presentation

What the product is designed to do

- Supports osmotic regulation and intracellular solute balance under cold conditions.
- Supplies potassium and magnesium for metabolic and photosynthetic functions.
- Supports cell-membrane stability and plant recovery following low-temperature stress.
- Promotes bud and reproductive-stage resilience where frost risk is forecast.
- Designed as a preventive programme input rather than a substitute for physical frost-protection measures.

Declared technical profile

Parameter	Specification
Water-soluble Potassium Oxide (K ₂ O)	11% w/v
Water-soluble Magnesium Oxide (MgO)	4% w/v
Water-soluble Sulphur Trioxide (SO ₃)	12% w/v
Free Amino Acids	1% w/v
Salicylic Acid	0.05% w/v

Physical form: Liquid concentrate

Batch-specific physical and analytical values are reported on the signed COA.

Recommended application programme

- Extreme frost guidance: at approximately 1 C to 0 C, 1,000 mL/100 L water.
- At approximately 1 C to -3 C, 1,000 mL/50 L water.
- At approximately -3 C to -5 C, 1,000 mL/25 L water.
- Root-zone risk management: 20-30 L/ha by drip irrigation.
- General foliar use: 2-3 L/100 L water; catalogue guidance also describes 500 mL/100 L water at 15-20 day intervals during harvest periods.

Correct mixing and application

Apply preventively before forecast frost whenever possible. Confirm crop tolerance at the intended concentration, especially at the strongest emergency rates. Conduct a jar test before tank mixing and do not combine with strongly alkaline materials or incompatible crop-protection concentrates.

- Use clean, calibrated equipment and suitable water.
- Follow the legal label of every tank-mix partner.
- Complete a jar test and, where relevant, a small-area crop-safety test.
- Apply uniformly at the correct crop stage and environmental conditions.

Commercial and operational value

- Clear technical positioning for distributors, agronomists and professional growers.
- Compatible with programme-based selling rather than single-input selling.
- Technical documentation set includes TDS, SDS draft, COA template and original catalogue reference.
- Packaging: 1 L, 5 L, 10 L and 20 L packs.

Compliance and responsible use

- Use only in accordance with destination-market law and approved labels.
- Biological/pesticidal claims may require local registration before sale or use.
- Catalogue claims must be aligned with final product formulation and regulatory dossier.
- Final commercial release requires local-language label, responsible-person details and regulatory sign-off.

CEON - Agricultural Plant Nutrition, Soil Management and Specialty Solutions