



OSMOPRIME

Premium multi-stress
solution

CHARACTERISTICS

OSMOPRIME is an advanced liquid biostimulant formulated with bioavailable silicon, glycine betaine, salicylic acid and potassium gluconate, specifically designed to improve crop tolerance to salinity, drought, high temperatures and other abiotic stresses. It acts on cellular structure, ionic balance and plant metabolism, maintaining photosynthetic activity and supporting higher yield and quality even under adverse conditions.



**FIGHTS
SALINITY**



**WITHSTANDS
HEAT**



**IMPROVES
WATER USE**



**BOOSTS YIELD
& QUALITY**



**STRONGER
PLANTS**

KEY BENEFITS



HIGHER TOLERANCE TO SALINITY AND DROUGHT.



MAINTAINS PHOTOSYNTHETIC ACTIVITY.



REDUCES OXIDATIVE STRESS.



IMPROVES IONIC BALANCE (K⁺/Na⁺).



PROMOTES GROWTH AND YIELD.



BETTER ROOT DEVELOPMENT.



MORE EFFICIENT WATER USE.



HIGHER FRUIT QUALITY AND SHELF LIFE.

MODE OF ACTION

SI — SILICON

Structure & defense

- Strengthens cell walls.
- Reduces Na⁺ and Cl⁻ uptake.
- Improves membrane integrity.
- Increases tolerance to dehydration and heat stress.

SA — SALICYLIC ACID

Signaling & resilience

- Activates plant defense mechanisms.
- Enhances tolerance to multiple stresses (salinity, heat, drought).
- Supports hormonal regulation.
- Delays senescence and maintains yield.

GB — GLYCINE BETAINE

Cellular osmoprotection

- Osmotic adjustment.
- Protects proteins and enzymes.
- Maintains photosynthetic activity.
- Reduces oxidative damage.

K — POTASSIUM GLUCONATE

Ionic balance & metabolism

- Improves K⁺/Na⁺ ratio
- Supports stomatal regulation.
- Optimizes water balance.
- Enhances metabolism and crop.

COMPOSITION

%w/v

Silicon (Si) soluble	2,00
Glycine betaine (GB)	10,00
Salicylic acid (SA)	0,10
Potassium (K ₂ O)	3,00

Excipients and stabilizers: q.s. to 100 %



Silicon



**Glycine
betaine**



**Salicylic
acid**



**Potassium
gluconate**

APPLICATION



CROPS



TOMATO



ONION/GARLIC



POTATO



COTTON



CITRUS



RICE



GRAPEVINE



BELL PEPPER



STRAWBERRY



CUCURBITS



OLIVE



**OTHER
VEGETABLES**

APPLICATION

FOLIAR APPLICATION

2-3 L/ha
Every 15-20 days
Under severe stress
conditions:
4 L/ha, 72-24 hours before
the stress event.

FERTIGATION (OPTIONAL)

5-10 L/ha
According to crop and
stress level.

PACKING:



1L



5L



20L



1000 L



IMPORTED
FROM EU