

OsmoHort

Osmoprotective Stimulant Based on Amino Acids and Micronutrients

COMPOSITION

Component	Content
Glycine-Betaine	Present / v
Free Amino Acids (Proline)	6.0%
Total Nitrogen (N)	5.0%
Organic Nitrogen (N)	5.0%
Water-soluble Phosphorus Pentoxide (P ₂ O ₅)	5.0%
Water-soluble Boron (B)	0.05%
Water-soluble Molybdenum (Mo)	0.005%
Water-soluble Zinc (Zn)	0.5%

Amino acids obtained through Enzymatic Hydrolysis.

Density: 1.13 g/cc

pH: 6–7

Formulation: Soluble Concentrate (SL)

Appearance: Brown Liquid

DESCRIPTION

OsmoHort is a natural product with Glycine Betaine (N,N,N-trimethylglycine) and Proline that helps crops cope with abiotic stress such as salinity, drought, extreme temperatures, cracking, waterlogging, etc. Its use prevents yield loss due to abiotic factors and maintains the crop's varietal potential.

OsmoHort induces a synergistic response in plants under abiotic stress. Its components enhance the accessibility of the hydrophobic domains of plant proteins to water, preventing protein denaturation caused by dehydration, and regulating cellular water flow. Other observed benefits include improved chlorophyll content, photosynthetic apparatus protection, maintenance of key metabolic pathways, and avoidance of ROS (Reactive Oxygen Species) overproduction.

Application of OsmoHort significantly reduces crop anomalies like fruit cracking, russetting in apples and pears, and enhances overall crop yield.

RECOMMENDED CROPS

Crop	Dose (L/ha)	Observations
Vegetables, Melon, Watermelon	3–4	First application at start of flowering (first cluster) and 2 more during fruit set (every 15 days). Reduces fruit cracking.
Citrus	2–3	Apply at start of flowering and repeat during petal fall and fruit growth.
Stone and Pome Fruits	4–6	Apply during color change from yellow to pink, and in final fruit ripening (pink to red). Treat 48h before heavy rains to prevent cracking, especially in cherries.
Olive	3–4	Apply at start of flowering and fruit setting. Enhances productivity under stress.
Strawberries and Berries	2–4	Three treatments throughout the growth cycle.
Table Grape	3–5	Apply during vegetative cycle and twice during grape growth (to maintain firmness).
Grass (Lawn)	3–4	Apply every 3 weeks to prevent Glycine Betaine loss from leaves.
Potato	3–4	Apply at start of tuber formation (bulking).

COMPATIBILITY

Due to its pH and composition, OsmoHort can be mixed with most fertilizers and crop protection products. However, a preliminary compatibility test is always recommended. In case of doubt, consult Nature Growth's technical department.

TOXICOLOGY AND ENVIRONMENT

- Keep out of reach of children.
- Do not eat, drink, or smoke while using the product.

Presentation

