



# EcoSalt®

## CONDITIONER FOR SALINE AND SODIUM RICH SOILS

### Benefits of use

**ECOSALT®** is a soil conditioner formulated specifically to reduce soil salinity and improve flocculation for a better porosity and penetration of water. In addition, **ECOSALT®** stabilises soil pH and reduces sodium content improving crop growth and avoiding saline stress. **ECOSALT®** enhances root growth and development thanks to the increment of soil porosity and nutrient and water uptake.

Carboxylic (-COOH) and hydroxylic (-OH) groups present in **ECOSALT®** play an important role in calcium transfer to colloidal soil particles, preventing and correcting salinisation and sodification effects.

#### Main effects:

- Physical effects:** Flocculation. Increases porosity and water penetration.
- Chemical effects:** Decreases sodium from colloidal fraction. Increases exchangeable fraction of calcium. Stabilises soil pH.
- Biological effects:** Improves germinations. Promotes root growth and development. Increases calcium availability and block toxic ions.

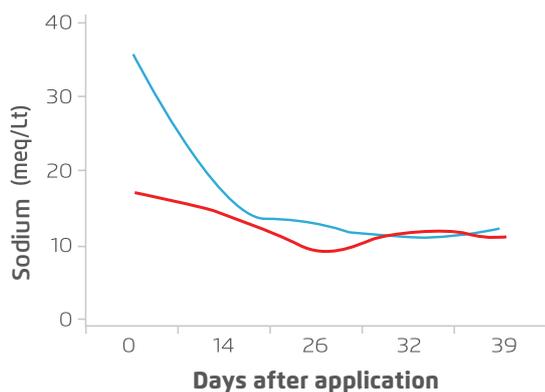


### Composition

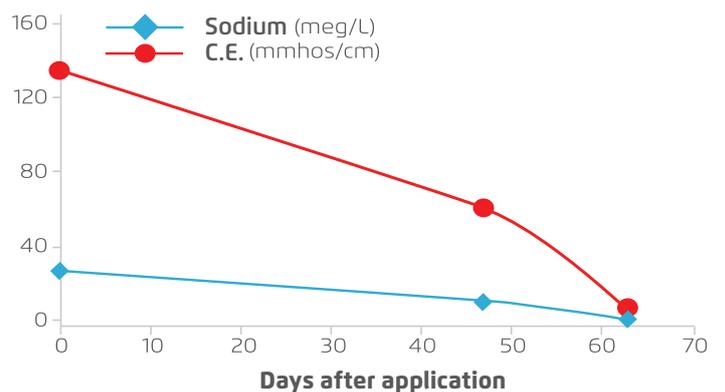
	(%w/w)	(%w/v)
Water-soluble Calcium (CaO)	10,0	13,0
Calcium (CaO) complexed with lignosulfonic acid	5,5	7,0

### Efficacy trials

*Effect of ECOSALT® in sodium content of soil (Chile)  
ECOSALT 20 l/ha every 15-20 days*



*ECOSALT® 80 l/ha (Copiapo, Chile)*





## Plant growth inhibition

<b>Saline soil</b>	<ul style="list-style-type: none"> <li>• Conductivity &gt; 4 mmhos/cm.</li> <li>• % Exchangeable sodium &lt; 15 Toxicity caused by dissolved ions.</li> </ul>
<b>Sodium soil</b>	<ul style="list-style-type: none"> <li>• Conductivity &lt; 4 mmhos/cm.</li> <li>• % Exchangeable sodium &gt; 15 Colloids formation (compaction) Alkalinity increment.</li> <li>• Low permeability and poor aeration. Germination reduction/root development. Trace elements become insoluble.</li> </ul>

## Sensitivity of different crops to salinity

- ↓ +	MELON	DATE	WHEAT ALFALFA CORN
	WATER	PAL	
	MELON	OLIVE	
	ARTICHOKE	VINE	
	TOMATO	CITRUS	
	POTATO	APPLE	
	EGGPLANT	PEAR	
	CUCUMBER	PLUM	
	LETTUCE	ALMOND	
	PEPPER	PEACH	
	STRAWBERRY		

## System and time of application

It is recommended to apply **ECOSALT®** before seeding and after transplant. In fruit trees, it is recommended to apply at pre-flowering, flowering, fruit set and ripening. The application can be done via irrigation or directly to soil.

## Stability and storage

**ECOSALT®** is stable during at least 3 years from the manufactured date. Keep in a fresh and ventilated place with temperatures below 50°C. Do not store for long periods under direct sunlight. Keep away from children. Do not eat, drink, or smoke while handling the product.

## Dosage

CROP	DOSAGE
Tomato, potato, eggplant	Apply 10 L /Ha 15 days after transplant. Perform 3-4 applications at 20 L/Ha every 5 days.
Cabbage, strawberry, pepper, zucchini, melon, water melon, artichoke, lettuce	5-10 L /Ha 10-20 days after transplant. Repeat applications at 20 L/Ha every 15 days.
Vid, olive, citrus, cherry	20 L /Ha every 15-20 days during the whole crop cycle or until the soil is recovered.

## Compatibility

For mixing with any other product, it is necessary to conduct a compatibility test in a small volume. For further information, technical advices, or any enquiries, please contact your local distributor.