



ZUNIRA

TECHNICAL DATA SHEET

Target

- Enhance spreading and penetrating and diffusion of all products in tank mix
- Spray (foliar) applications
- Tank mix with fungicides, herbicides, fertilisers, PGR (and Insecticides)

Crops

- All Crops (protected and outdoor)

Labelling

- Nederland
- Polland
- Czech Republic-Slovakia
- Romania
- Greece
- Austria

Specifications

.pH: 6.40

.Density: 0.99 g/ml

What is Zunira?

Is a biological, phytochemical adjuvant, based on ethoxylated castor oil in EW formulation to be used in tank mixes for foliar applications.

Product Specifications

Product	Effective Component	Concentration	Formulation
Zunira®	Castor Oil, Ethoxylated, Oleate	1,0 % (w/w)	EW
	Other Ingredients and water	99,0 % (w/w)	

Storage

Shelf life: **3 years at room temperature**

Dosis

Crop Type (protected cultivation)	Dose (L/ha) Conc (%)	Recommended Applications (per crop cycle or per 12 months)	Interval between applications (days)
Leafy Vegetables	0,5 - 1,0 0,10 - 0,20	4	7-10
Fruiting Vegetables	0,6 - 1,5 0,15 - 0,20	8	7-10
Woody Perennial: Grapes, Ornamentals and Orcahrds. Aromatic Crops.	0,8 - 1,5 0,15 - 0,20	8	7-10
Field Broadacre Crops (All)	0,3 - 1,0 0,20 - 0,50	3	7-21

Timing and Recommendations for Use

Zunira® can be applied at any time (between BBCH 10 and BBCH 99), in combination with many different products. Respect always the shorter PHI of the tank mix partners, as the product itself has no residues, it's not a plant protection product, we recommend a PHI of 7 days.

Repeat treatments at intervals of 7 days, with a maximum of 8 applications per cycle. In the case of high complexity tank mixes (more than 4 products) perform a selectivity test of the tank mix on a small plot.

The effect of **Zunira®** is variable and influenced from the water quality and partners chemical profile; adjust the usage and the concentration and strategy for optimal results.

DISCLAIMER

Use plant protection products safely. Please read the label and product information before use. Please consult the instructions for use to prevent potential harm to people and environment.



ZUNIRA

TECHNICAL DATA SHEET

Instructions for Use

Shake before use.

For a uniform mixture in the spray tank, pour **Zunira®** into the solution respecting the standard order for solids and liquids partners while the agitation system of the equipment is operating. Maintain continuous agitation throughout the entire application.

If the product has been **stored for extended periods or exposed to low temperatures, shake more intensively** before dosing it. Store for a short period of time when open, in cool conditions and far from direct sunlight.

Apply **Zunira®** tank mixes under low/med sunlight preferably in the morning or late afternoon.



IMPORTANT

Preparation of the Spray Solution, fill the tank up to 1/2 or 3/4 of the total volume to be applied. While the agitation system is running, pour in the required amount of product and keep it under continuous agitation to achieve a homogeneous suspension.

Spray immediately after preparing the mixture or by 24 hours respecting the tank mix partners specific needs.

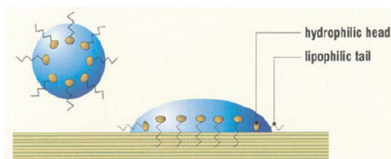
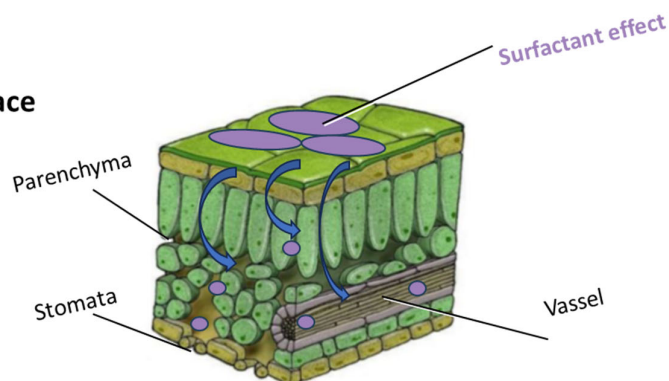


Figure 2a: Interaction of hydrophilic and lipophilic parts of a surfactant to reduce surface tension and spread the droplet (Source: Hall et al, 1999).

Cleaning of Spraying Equipment, after applying **Zunira®**, it is recommended to rinse the tank, pipes, and nozzles with clean water, removing any product residue from the tank mix that may have adhered. The product is enhancing the mixability and never demonstrate any incompatibility even using low volumes of water. The product is not tested for cold fogging applications.

Leaf Surface



DISCLAIMER

Use plant protection products safely. Please read the label and product information before use. Please consult the instructions for use to prevent potential harm to people and environment.