

OsmoFlow™

PLANT HYDRATION & SALINITY STRESS.

POWERED BY
RAM™
TECHNOLOGY



Water Efficiency, Yield Consistency.

Water is your crop's most valuable input. *OsmoFlow* helps plants move and use it more effectively, so you get stronger roots, uniform stands, and higher yields. It promotes healthy soil aggregation, reinforces cell and root structures, and keeps hydration flowing—even under salt stress from fertilizers or naturally salty soils. By excluding and inactivating harmful ions, even within the plant, *OsmoFlow* protects plant vigor, supports biomass accumulation, and keeps growth on track from establishment to harvest.

✓ Why Growers Choose OsmoFlow:

- **Efficient Water Uptake** – Keeps hydration flowing under variable conditions.
- **Uniform Growth** – Consistent establishment and crop quality across the field.
- **Root & Soil Health** – Promotes soil aggregates and strong root architecture.
- **Ion Management** – Excludes harmful ions and inactivates them in plant tissues.
- **Yield Confidence** – Greater biomass accumulation and sustained vigor.

OsmoFlow is the perfect companion with every fertilizer application to maintain hydration and performance.

✓ Included Biostimulants:

- Alginates
- Fulvic Substrates
- Carboxylic Acid
- VMC Surfactant



Label Analysis:

Alcohol, C9-16, ethoxylated3%

✓ What Types of Abiotic Stresses Does OsmoFlow Help Plants Overcome?

OsmoFlow helps plants withstand ion stress, osmotic stress, and salinity stress—common challenges in fields receiving fertilizer or manure. By protecting roots and soil from salt overload, *OsmoFlow* keeps crops hydrated and productive under tough conditions.

- What is **Ion Stress**?
 - Ion stress happens when excess sodium, chloride, or other salts disrupt nutrient balance and damage plant cells. *OsmoFlow* excludes harmful ions from uptake and inactivates those that do enter, safeguarding plant metabolism and growth.
- What is **Osmotic Stress**?
 - Osmotic stress occurs when salts in ground water make it harder for plants to pull in moisture. Even if water is present, plants may wilt as if in drought. *OsmoFlow* reduces osmotic pressure, helping roots move water efficiently through salty soils and manure-treated fields.
- What is **Salinity Stress**?
 - Salinity stress combines ion toxicity and osmotic stress, stunting growth and reducing yields. By reinforcing root and cell structures, *OsmoFlow* keeps hydration flowing and supports uniform stands, even in saline or high-input soils.

✓ How Does OsmoFlow Expel Harmful Ions?

- *OsmoFlow* works on two fronts:
 - **In the Soil** – Prevents harmful ions from binding tightly, allowing water and nutrients to flow freely.
 - **In the Plant** – Inactivates ions that enter tissues, reducing toxicity and protecting vital processes like photosynthesis.

✓ How Does OsmoFlow Improve Soil Structure?

OsmoFlow promotes healthy soil aggregation, which creates stable pores for water movement and root access. Better soil structure means water infiltrates, spreads, and stays available—which is critical when applying manure or fertilizers that can otherwise compact or disrupt soil flow.

Suggested Rate:

Soil: Apply 1 qt - 1 gal/acre in season, depending on soil or crop demand. Repeat as needed.

Visit with your sales agronomist to best determine what your precise needs are.