



Approved as a  
tank mix adjuvant  
with:

- ✓ Syngenta Tavium Plus VaporGrip
- ✓ Monsanto Xtendimax w/VaporGrip
- ✓ Dupont FeXapan w/VaporGrip
- ✓ BASF Engenia
- ✓ Dow Enlist One
- ✓ Dow Enlist Duo



# HYDRATE PLUS NF

## ◆ Uniquely Formulated Surfactant

HYDRATE PLUS NF is a uniquely formulated surfactant. HYDRATE PLUS NF is a non-foaming wetting agent that drastically reduces surface tension of water and chemicals.

This uniquely designed product is for today's spraying systems.

The non-foaming formulation reduces foam in the chemicals that HYDRATE PLUS NF is combined with eliminating in most cases the need for an additional defoamer to be added.

By breaking surface tension, the bead of water/chemical is forced to break down, sheet, and penetrate quickly.

This allows for a more potent application with less runoff and evaporation resulting in a more efficient treatment that lowers the cost of application.

## ◆ For Use With Fertilizers, Herbicides, Water, Insecticides, and Fungicides\*

HYDRATE PLUS NF eliminates potential headaches for farmers. It allows products such as pesticides that are naturally water resistant to bond and stay mixed thoroughly.

Another challenge is application of chemicals on waxy leaf plants. Chemicals alone will not penetrate these type plants. HYDRATE PLUS NF allows the surface tension to break and the chemical applied to penetrate much more efficiently.

Contact kill products, when mixed with HYDRATE PLUS NF, have a stronger, longer lasting kill. Chemicals or irrigation water\* mixed with HYDRATE PLUS NF are far more effective.

HYDRATE PLUS NF actually benefits spraying equipment by reducing salt and mineral deposits on spray nozzles; thus, helping to keep nozzles clean, clear, and spraying properly.

## ◆ Very Effective Non-Ionic Surfactant

HYDRATE PLUS NF is a non-ionic surfactant that is designed to be used on deciduous trees, edible crops, vegetation, and grasses. It contains a pH level in the range of 9 - 10 in concentrate and pH 7/Neutral in 1:800 ratio.

Due to HYDRATE PLUS NF being non-corrosive, it is safe on the applicator and the application equipment.

\*Where approved for use.



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Since 1922**

HYDRATE PLUS NF is non-ionic. This means that it is not affected by the chemical bond between two oppositely charged ions. This is vital when dealing with certain chemicals where if their positive or negative charge changes, a chemical becomes ineffective.

HYDRATE PLUS NF's neutral charge ensures that chemicals and water will work in tandem to provide uniform application.

### ◆ **Multi-Functional**

There are many other areas which can benefit tremendously from its performance. HYDRATE PLUS NF can be mixed with water and sprayed on dirt areas to reduce dust.

It can be applied to asphalt directly during road destruction to prevent the asphalt from sticking to the teeth on the equipment. On golf courses, in addition to improving chemical/fertilizer applications, HYDRATE PLUS NF can be applied directly to water puddles on the course. This will break the surface tension allowing the water to be absorbed quicker into the ground.

HYDRATE PLUS NF is a superior wetting agent that serves many functions, such as a penetrant, a dispersant, and a rinse aid.

## **Using Guidelines for HYDRATE PLUS NF**

Hydrate Plus NF should be added to a chemical mixture in the order recommended by the chemical manufacturer for a non-ionic surfactant.

**\*Average recommendations for mix. (Some ratios may vary depending on product mixed) \***

	100 Gallon Final Mixture	Ratio
<b>Agriculture</b>		
*Fertilizing	1/2-2 pints	1:1600 to 1:400
Pesticides or Waxy Leaf Applications	1-3 pints	1:800 to 1:400
<b>Golf Courses</b>		32 oz. per acre
Injection Method		1-2 oz. per acre
Hose		1-2 oz. per 1,000 sq. ft.
Spray Tank		1-2 pints per acre
<b>Nurseries</b>		
Injection Method		1 oz. per 1,000 sq. ft.
Spray Tank	1-2 pints	1:1600 to 1:400
<b>Road Compaction/Dust Control</b>	1-2 pints	1:800 to 1:400
<b>Other Applications</b>	1-3 pints	1:800 to 1:270

## **SPECIFICATIONS**

\*Where approved for use.

HYDRATE PLUS NF  
Product Code # 1300

SPECIFIC GRAVITY	(H2O=1):1.01
pH (Concentrated)	9 - 10
pH (1:800 ratio)	7/Neutral
Biodegradable	Yes
Color and Odor	Clear, Green Liquid - No Odor

Please Protect HYDRATE PLUS NF from Freezing.  
DO NOT AGITATE WITH AIR HOSE

Registrations

Arkansas, Idaho, Kentucky, Mississippi, Tennessee, Utah, Wyoming  
Washington Registration Number 99799-14001, California Registration Number 3215-50002-AA

## **TEXAS REFINERY CORP**

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