



# NUTRISPHERE-N<sup>®</sup> QUICK DRY ORANGE

Nitrogen Fertilizer Manager

REV 12/15 A1 GHS  
FFN 04005

FOR USE ON  
GRANULAR  
NITROGEN  
FERTILIZERS

FOR  
AGRICULTURAL,  
TURF AND  
HORTICULTURAL  
USES

NOT A  
PLANT FOOD  
PRODUCT.

## NUTRISPHERE-N<sup>®</sup> QUICK DRY ORANGE (N-N<sup>®</sup> QDO) for GRANULAR NITROGEN FERTILIZERS

Manages Nitrogen  
Volatilization and Nitrification

**N-N QDO for GRANULAR NITROGEN FERTILIZERS** manages and protects granular nitrogen fertilizers by reducing volatilization and nitrification when applied with granular nitrogen fertilizers to the soil.

**Active Ingredient -**  
30% wt./wt. ....partial calcium salt of maleic-itaconic copolymer  
**Inert Ingredients -**  
70% methanol, propylene glycol, boric acid, dye (application aid), polyvinyl acetate, water

**N-N QDO for GRANULAR NITROGEN FERTILIZER IS A NON-PLANT FOOD INGREDIENT AND NOT RECOMMENDED FOR USE AS A FERTILIZER SUBSTITUTE.**



**DANGER - Toxic if swallowed, inhaled, or in contact with skin. Causes severe skin burns and eye damage. May damage fertility or the unborn child. Causes damage to organs. Flammable liquid and vapor. Harmful to aquatic life with long lasting effects.**

### PRECAUTIONARY STATEMENTS

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep cool.

Immediately call a poison center or doctor/physician. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. **IF ON SKIN (OR HAIR):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center or doctor/physician. **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. **IF SWALLOWED:** Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting. **IN CASE OF FIRE:** Use CO<sub>2</sub>, dry chemical, or foam for extinction.

### GENERAL INFORMATION

**N-N QDO for GRANULAR NITROGEN FERTILIZERS** works best when evenly sprayed onto granular nitrogen fertilizer that is to be applied to the soil. When undisturbed, N-N QDO prevents or reduces volatilization and nitrification of granular nitrogen fertilizers.

### APPLICATION RATES

N-N QDO treated nitrogen fertilizer should be applied to the soil in the same manner as nitrogen fertilizers without N-N QDO. **NOTE:** When using N-N QDO, if different farming methods from those normally used are tried, test strips are recommended until such new methods have been proved to be effective.

### SOIL TYPES AND CROPS

N-N QDO is designed to reduce and insure against the possibility of nitrogen losses from volatilization and nitrification. N-N QDO may be used with any crop and in any soil type where best management practices recommend the use of nitrogen fertilizers.

### MIXING INSTRUCTIONS

N-N QDO should be evenly sprayed, not poured onto granular nitrogen fertilizers. In cold conditions, check viscosity of N-N QDO prior to spraying. Standard spraying equipment works well for evenly spraying granular nitrogen fertilizers. Do NOT APPLY N-N QDO to granular nitrogen fertilizers that are wet prior to treatment. If after treating with N-N QDO, the granular nitrogen fertilizer is wet, allow drying before use. To prevent streaking a field, do not apply wet fertilizer. N-N QDO for GRANULAR NITROGEN FERTILIZERS can be used with multiple types of granular nitrogen fertilizers. However, the quality and composition of nitrogen fertilizers varies greatly. Before evenly spraying N-N QDO for GRANULAR NITROGEN FERTILIZERS on other nitrogen fertilizers, those fertilizers should be "batch tested" to determine capability with N-N QDO. If wetness occurs, pre-treat to allow time for drying. Do not blend urea or other granular nitrogen fertilizers that are wet. Do not attempt to spread wet fertilizer, as streaking may occur. Ammonium sulfate is often blended with granular nitrogen fertilizers treated with N-N QDO. Before blending ammonium sulfate with treated granular nitrogen fertilizers, do a "batch test" using the same ratio of ammonium sulfate to evenly spray granular nitrogen fertilizers intended to be used on

a field. If wetness occurs, reduce the amount of Ammonium Sulfate until wetness is no longer an issue. For optimum results, pre-treat all nitrogen products and allow drying before mixing. This product may be used with ammonium sulfate. "316" stainless steel pumps and attachments are recommended. When seals are used, seals made of "Bore-Tex", Teflon", or "Viton" are required.

### TREATMENT RATES

N-N QDO for GRANULAR NITROGEN FERTILIZERS is recommended to be evenly sprayed at a rate of 0.25% or 1/2 gallon of N-N QDO per ton of granular nitrogen fertilizers and other nitrogen fertilizers (2.1 liters per metric ton).

### ANTI-CAKING PROPERTIES

N-N QDO for GRANULAR NITROGEN FERTILIZERS has shown to inhibit caking of the fertilizer that sometimes occurs with granular nitrogen while stored in bins.

### USE PRECAUTIONS

#### KEEP OUT OF THE REACH OF CHILDREN DO NOT INHALE OR SWALLOW

Do not use liquid nitrogen fertilizers or spray on seed. N-N QDO for GRANULAR NITROGEN FERTILIZERS and N-N for GRANULAR NITROGEN FERTILIZERS are not compatible and should not be mixed together. Read entire SDS and label before use, including all "Use Precautions" and "Warranty/Limitation of Remedies" made below. Always wear proper personal protection and follow instructions for treatment and application. Use according to label directions.

N-N QDO for GRANULAR NITROGEN FERTILIZERS contains methanol.

- DO NOT CONSUME.** Methanol is poisonous to humans and animals.
- FLAMMABLE.** Use in well-ventilated areas. DO NOT USE NEAR OPEN FLAME, spark of any ignition source. Absolutely "NO SMOKING" when treating fertilizer.
- PROTECT EYES AND LUNGS.** If contact with eyes occurs, flush thoroughly with clean water and seek medical attention immediately. Do not breathe vapors. If dizziness occurs or there is throat or chest irritation, go to a well-ventilated location. Seek medical attention immediately.
- Protective Gear:** Always wear protective gear. Wear long-sleeved shirt, long pants, safety goggles, mask, and natural or butyl rubber gloves.
- Poison Control:** If swallowed, seek medical emergency services, 911 and/or call the National Poison Control Center's Number 1-800-222-1222 for assistance.
- Ventilation of Fertilizer Treatment Area and Equipment:** Always treat in well-ventilated area. Keep a well-maintained fire extinguisher available.
- Equipment Clean Out or Repair.** At all times while fumes may be present, do not enter or lean into blending drum or other equipment until area is well-ventilated and fumes have dissipated.

### 8. Spraying Equipment.

Use only well-maintained and non-sparking equipment. Flammability and toxicity concerns exist only during the shipment and storage of N-N QDO and while being evenly sprayed onto fertilizer. Once the fertilizer has been treated with N-N QDO and the spraying dries, NO ISSUES of flammability or toxicity exist from N-N QDO in a bin or on a field.

Observe all precautions on label. Observe all warnings on label. Read the Safety Data Sheet prior to use.

### STORAGE AND HANDLING

Store locked up in a well-ventilated place. Keep container tightly closed. Dispose of contents/container in an approved waste disposal plant. Do not contaminate waterways and sewers during cleaning of equipment or disposal of wastes, always adhering to applicable provisions of federal, state, and local laws and regulations. Completely empty contents into application equipment. Dispose of empty container by depositing in sanitary landfills, or as required by law. Do not reuse containers.

### WARRANTY

Verdesian Life Sciences U.S., LLC warrants that this Product conforms to the specifications set forth on the label. This Product is specifically fit for the purpose stated on the label when used in accordance with the label directions and instructions under normal conditions of use. **VERDESIAN NEITHER MAKES, NOR AUTHORIZES ANY AGENT, REPRESENTATIVE OR THIRD PARTY TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, AS TO THE CONDITION, QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** Neither the warranty of merchantability nor fitness for a particular purpose, expressed or implied, extends to the use of this Product contrary to label instructions or under abnormal conditions or under conditions not foreseeable to the Seller or Verdesian. Limitation of Remedies. The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability or other legal theories), shall be limited to, at Verdesian's election, one of the following: (1) replacement of the amount of product used; or (2) refund of the purchase price paid for the product; provided that Verdesian's provision of (1) or (2) is conditioned on its first being promptly notified of such loss or damage in writing. Verdesian shall not be liable to the buyer or any other party claiming by, through, or under the buyer for any other losses or damages resulting or relating to this product, including but not limited to any direct, indirect, special, punitive, economic, incidental or consequential damages or loss of profits, whether in contract, tort or otherwise. Verdesian neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale, storage, use or handling of this product other than expressly set forth herein.

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