

# NITROLOCK™

## CONCENTRATED NBPT - DCD SOLUTION

Nitrolock™ is a fertilizer additive for Urea and Urea Ammonium Nitrate (UAN) fertilizers that is a dual mode of action urease and nitrification inhibitor.

*This product is not recommended for use as a fertilizer substitute.*

**This product contains a green colorant.**

#### CONTAINS NONPLANT FOOD INGREDIENT

##### Active Ingredients:

N-(n-butyl) thiophosphoric triamide ("NBPT")  
Dicyandiamide ("DCD")

##### Directions For Use:

Caution: Only use Nitrolock™ according to the label directions. Read the entire label and material safety data sheet M(SDS) prior to use. Use of Nitrolock™ treated fertilizer is not recommended applied next to the seed in-furrow.

##### General Information:

Nitrolock™ contains NBPT which stabilizes surface applied nitrogen by inhibiting the activity of the urease enzyme, slowing hydrolysis thus minimizing ammonia volatilization. Nitrolock™ also contains DCD which slows the conversion of ammonium to nitrate by temporarily disrupting the activity of the bacteria Nitrosomonas and Nitrobacter. Nitrolock™ may be used in any soil type and with any crop where best management practices call for the application of nitrogen.

#### Product Application Rates

Suggested Application Rates Per Short Ton of Product

Granular Urea	2-3 Quarts (1.89L - 2.84L)
UAN Solution (28-32%N)	3-5 Quarts (2.84L- 4.73L)
Liquid Manure	2-4 Quarts (1.89L -3.79L) Per Acre (Not suggested to add to the manure pit)

#### Granular Urea Blending/Coating:

**Equipment:** Use of an accurate scale/meter to measure product is essential. Uniform coating can be achieved in a rotary fertilizer blender, paddle mixer, or auger system.

#### Procedures:

1. Follow proper personal protection practices (protective clothing, gloves, goggles, etc.).
2. Fill mix vessel with desired weight of urea.
3. Measure correct amount of Nitrolock™ and combine with urea.
4. Allow enough time for urea to have uniform contact with Nitrolock™.
5. Nitrolock™ contains a colorant to aid in evaluation of uniform coating.

Extreme temperatures and humidity may result in urea granules sticking together. The use of a drying agent may help alleviate this problem.

#### Mixing with Urea Ammonium Nitrate (UAN) Solutions:

1. Follow proper personal protection practices (protective clothing, gloves, goggles, etc.).
2. Fill tank half full with UAN solution and start agitation.
3. Measure correct amount of Nitrolock™ for entire desired volume and add to circulating tank mix.
4. Add remainder of UAN solution.

#### Storage, Handling & Disposal:

Do not store in direct sunlight. Do not mix with water as solids will form. Freeze Protect - Do not store in temperatures below 20°F (-7°C). Store product in original container. Do not reuse container. Do not contaminate water, food or feed by storage or disposal.

Keep packaging closed, securely fastened and upright. Triple rinse or equivalent and dispose of container in accordance with local, state and federal regulations. Use in a well-ventilated area. Prohibit smoking in area of use. Do not ingest.

Avoid contact with skin and eyes. Avoid breathing mists or aerosols. Do not feed urea treated with product to animals. Keep out of reach of children, pets & livestock.

#### First Aid:

Eyes: Flush with water for 30 minutes — seek medical attention.  
Hands: Wash with water or soap and water.  
Body: Remove clothing (shoes) and wash with water.  
Ingestion: seek medical attention at once, do not induce vomiting unless directed, and keep head below hips if person attempts to vomit.  
Inhalation: Move victim to fresh air if safe. Provide breathing support if required. Seek medical attention.

**HMIS Rating: Health:2 Flammability:1 Physical Hazard: 0**  
**NFPA 704 Hazard Rating: Health:2 Fire:1 Instability: 0 Other: None**

**WARNING**  
**Eye and Skin Irritant.**  
**May be harmful if ingested.**



### Danger

#### HAZARD STATEMENTS:

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May damage fertility. May damage the unborn child.

#### PRECAUTIONARY STATEMENTS:

Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing gas/mist/vapors/spray. 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 EXPOSED OR CONCERNED: Get medical advice/attention.

**microSource**

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**NET CONTENTS:** 250 gal (946.35 L) **NET WEIGHT: 2,405 lb (1,090.89 kg)**  
**9.62 lb per gal (1.15 kg per L)**

**Weight Per Gallon = 9.62 lb and**  
Specific Gravity = 1.15 pounds per gallon at 68°F

**Read the material safety data sheet before using this product.**

#### IMPORTANT WARRANTY DISCLAIMER AND NOTICE

READ CAREFULLY BEFORE PURCHASE OR USE OF THIS PRODUCT  
The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use or handling of this product. Crop injury, ineffectiveness, or other unintended consequences may result due to such factors as weather conditions, presence or absence of other materials, or the manner of use or application, all of which are beyond the control of microSource, LLC (the "distributor"). All such risks shall be deemed to be assumed by the buyer or any user of this product.

The products sold to you are furnished "as is" by the distributor, and are subject only to the distributor's warranty that this product conforms to the chemical description on this label. Except as expressly provided herein, the distributor makes no warranties, guarantees, or representations of any kind to buyer or user, either express or implied, or by usage of trade, statutory or otherwise, with regard to this product or the use of this product, including, but not limited to, no warranty of merchantability, or warranty of fitness for a particular purpose is made by distributor, except as expressly stated herein. The distributor makes no warranty regarding the results to be obtained by use of this product or its safety or appropriateness for any particular use. To the extent allowed by law buyer's or any other user's exclusive remedy for any and all losses injuries or damages resulting from

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