

# N-LINE

## Nitrogen Stabilizer

### ACTIVE INGREDIENT

NBPT (N-(n-butyl)-thiophosphoric triamide)..... 26.7%

OTHER INGREDIENTS ..... 73.3%

TOTAL ..... 100.0%

### DIRECTIONS FOR USE

Read the entire label before use. Use only according to label directions. Before buying or using N-Line, read the "Warranty Sales of Conditions". If terms are unacceptable, return at once unopened to place of purchase. Always wear proper personal protection. Use only with adequate ventilation (large volumes of air movement). If organic vapors or dusts are present above their regulatory limits, follow a respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable Federal / State, provincial or local requirements whenever workplace conditions warrant respirator use.

### APPLICATION RATES

N-Line is urea specific and may be used for any nitrogen consuming plants. This product is recommended for surface application of urea and urea containing fertilizers such as pre-plant, pre-emergence, side-dress, top-dress, broadcast or other post-planting applications. The benefits of N-Line as a urease inhibitor are a result of its ability to retard the hydrolysis of urea and control volatility, preventing ammonia loss while the urea is on the soil surface. Many factors in the environment contribute to volatilization. The factors increasing volatilization that should be considered when choosing the appropriate rate include:

1. High soil moisture
2. Drying conditions including low humidity, sun and wind
3. High air and soil temperatures
4. High pH soils
5. Low organic matter and lower Cation Exchange Capacity (CEC) soils
6. High amounts of crop residue
7. Length of control needed

### USE RATE PER TON FERTILIZER

Urea	2-4 qts/ton
UAN	1-1.5 qts/ton

When conditions favoring volatility exist, or when longer control is needed, the rate may be increased by 1 qt/ton

### ⚠ DANGER

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Possible risk of impaired fertility. See FIRST AID and Additional Precautionary Statements Below  
**Read Entire Label Before Using This Product**  
SHAKE WELL BEFORE USE (Recirculate Contents Before Use)



### NET CONTENTS:

2.5 U.S. GALLONS (9.46 L)

### FOR BLENDING ON UREA

Product should not be combined with Dicyandiamide (DCD) products.

#### Equipment Required

- An accurate scale to weigh materials.
- A fertilizer blender or other equipment suitable for rolling or blending the ureaparticles with N-Line. A rotary device that can tumble the urea and allow for uniform contact with this product without spillage is appropriate. Auger and paddle mixers may also be used. Exposed inner surfaces should be clean, dry and rust free.

#### Procedure

1. Wear proper personal protection.
2. Use only with adequate ventilation with large volumes of air movement. If used with inadequate ventilation respiratory protection is required.
3. Weigh the urea and transfer into the mixing or blending equipment.
4. Measure the desired quantity of N-Line.
5. Apply N-Line to the urea in the blender. Blend well before introducing other fertilizer materials and allowing adequate time for uniform coverage. A dye is included in the product to assist in evaluating the uniformity of coverage.
6. Under certain temperature and humidity conditions, urea blended with N-Line may stick together. Often the addition of other fertilizer materials to the blender, such as potash, will eliminate the need to add a drying agent. If the particles remain sticky, add small amounts of finely ground, highly absorbent, free-flowing powders such as attapulgite clays at concentrations as low as 0.25% by weight of the treated urea.

#### Storage after blending:

Granular dry urea treated with this product is suitable for long-term storage in sealed plastic bags. Research shows stabilized fertilizer packaged in sealed plastic bags may be stored 9 months between 66° and 77°F.

### FOR MIXING WITH UREA AMMONIUM NITRATE (UAN) SOLUTIONS

#### Procedure

1. Wear proper personal protection.
2. Use only with adequate ventilation with large volumes of air movement. If used with inadequate ventilation respiratory protection is required.
3. Fill the spray tank half full with UAN solution.
4. Add the product to the UAN solution and mix thoroughly by agitation prior to adding pesticides or surfactants.
5. With agitators on, add the appropriate amount of this product for the desired concentration in the full volume.
6. Mix well and then add the remainder of the UAN solution.
7. Use blended UAN solution soon after mixing. If necessary, UAN treated with this product may be stored up to 70 weeks.

#### Compatibility

Some testing has been conducted to assess the stability and compatibility of this product with certain herbicides and adjuvants. Test results show that the rate of the degradation should not preclude the use of this product with most commonly used agricultural herbicides under normal use. Most agricultural chemicals compatible with UAN solutions are also compatible with this product. However, compatibility tests prior to use are recommended. Glyphosate herbicides may cause an increase in the rate of degradation when tank-mixed with this product. Therefore such mix should be applied soon after mixing to avoid a possible reduction in the effectiveness of the active ingredient. Product should not be combined with Dicyandiamide (DCD) products.

#### FIRST AID

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. If skin irritation occurs, get medical advice.

**IF IN EYES:** Rinse cautiously with water for 15 to 20 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists, get medical attention.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.

**IF INHALED:** Move person to fresh air and keep comfortable. Call a poison control center or doctor for further treatment advice if you feel unwell. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

**DANGER:** Do not handle until all safety precautions have been read and understood. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, chewing gum, using tobacco or using the toilet. Do not apply this product in such a manner as to directly expose workers or other persons. If product is being mixed with pesticides and/or compatibility agents, follow the FIRST AID and Precautionary Statements on the product's labeling.

**DANGER:** This product contains chemicals known to the State of California to cause cancer or birth defects or other reproductive harm. Tests have not been carried out under all possible use conditions and Seller cannot and does not represent or warrant that the goods are compatible with all other chemicals or under all use conditions.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)** Recommend long sleeves and long pants, goggles and ANSELL EDMONT NEOX Neoprene gloves Number 9-921 or equivalent when handling the product.

### ENVIRONMENTAL HAZARDS

Do not contaminate waterways and sewers during cleaning of equipment or disposal of wastes. Do not enter treated areas until spray has thoroughly dried. Keep livestock off treated areas until after 1 inch of rainfall has accumulated. Urea, which is a component in UAN, may be toxic to livestock when ingested. Observe all precautions on label and read safety data sheet before use. Not recommended for feed application. Do not apply directly to water. Always adhere to applicable provisions of Federal, State, provincial and local laws and regulations. N-Line is a fertilizer additive for Urea and Urea Ammonium Nitrate (UAN) fertilizers that reduces volatility by inhibiting the activity of the urease enzyme. Not recommended for use as a fertilizer substitute.

### STORAGE AND DISPOSAL

**PRODUCT STORAGE:** Avoid exposure - obtain special instructions before use. Use care in handling / storage. Store this product in tightly closed original container in a well-ventilated place and in accordance with local / regional / national / international regulations. Keep away from food, drink and animal foodstuffs. Avoid freezing and avoid contact with water. If the product is subjected to temperatures below 32°F (0°C) for an extended period of time, it will become gel-like and the formation of crystals will result in the bottom of the container. If this occurs, move product to a warm location where the inside temperature of the product can be brought above 53°F (14°C). At this point the product will return to its normal liquid state. Following these procedures the product may be used normally. No degradation of active ingredient will occur with the product that has been frozen. Avoid high temperatures. Long term storage at temperatures above 100°F (36°C), and long term storage of open containers, will cause the product to degrade. As the product degrades, it can release harmful gases. Store below 100°F (36°C) and use opened containers within 30 days. Always use oldest stock first.

**PRODUCT DISPOSAL:** Follow all governmental requirements for the disposal of agricultural spray solutions.

**CONTAINER DISPOSAL:** Dispose according to Federal, State, provincial, and local regulations. Dispose of containers after rinsing. Cold temperatures, hard water or less than adequate amounts of water in rinsing may result in the formation of crystals. Offer empty containers for recycling, reconditioning, or dispose in a landfill or by other procedures approved by relevant authorities.

### WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.



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