

# N-EDGE®

## Nitrogen Stabilizer

### GUARANTEED ANALYSIS:

#### Active Ingredients:

N-(n-butyl) thiophosphoric triamide (NBPT) CAS No. 94317-64-3.....	26.7%
Inert Ingredients.....	73.3%
Dimethyl sulfoxide [DMSO] CAS No. 67-68-5, Benzaldehyde CAS No. 100-52-7, 1,2,3-propanetriol CAS No. 56-81-5	



## DANGER

### KEEP OUT OF REACH OF CHILDREN

Refer To Material Safety Data Sheet (MSDS) For Important Environmental, Safety and Health Information

#### DANGER

Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Suspected of damaging fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. For specific treatments, see additional precautions.

**Personal Protective Equipment:** Wear protective gloves, protective clothing, eye protection and face protection.

#### PRECAUTIONARY STATEMENTS

##### First Aid:

**IF SWALLOWED:** Call a doctor or poison control center immediately if ingested.

**IF ON SKIN:** Take off contaminated clothing and wash skin with plenty of water. Wash clothing before reuse. If skin irritation occurs; seek medical advice/attention.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do, continue rinsing. Immediately call a doctor/Poison Control Center if eye contact has occurred.

N-Edge® is an NBPT-based nitrogen stabilizer offered by CHS. NBPT is a proven urease inhibitor that prevents the breakdown of urea-based nitrogen fertilizers resulting in ammonia volatilization.

#### Compatibility:

Some testing has been conducted to assess compatibility of N-Edge® nitrogen stabilizer with certain

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herbicides and adjuvants. 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 and should be applied soon after mixing. Do not combine with DCD.

#### Blending Instructions:

Ensure equipment is calibrated for the use rate associated with tonnage, is appropriately measured:

- **UAN:** agitation is applied to tank that is ½ filled with nitrogen product prior to N-Edge® integration into solution. Apply the appropriate rate of N-Edge®, allow 30 seconds to mix and the remaining UAN. Product can be stored in solution for 10 weeks without degradation.
- **Urea:** Apply the appropriate rate of N-Edge® to the blend, allow a minimum of 30 seconds/ton for assured uniformity prior to introducing other fertilizer materials.
- **Manure:** Refer to Product Use Rate table and Product Bulletin for blending information

#### Recommended Application Rates:

N-Edge® nitrogen stabilizer may be used for any nitrogen consuming crops including row crops, specialty crops, vegetables, fruit, tree crops, sod, turfgrass, forestry, forage, ornamentals and other crops needing nitrogen fertilizer. This product is recommended for surface application of urea and urea containing fertilizers such as pre-plant, pre-emergence, side-dress, top-dress or other post-planting applications. The benefits of N-Edge® nitrogen stabilizer as a urease inhibitor are a result of its ability to retard the hydrolysis of urea and control volatilization, preventing ammonia loss while the urea is on the soil surface.

Urea	Use Rate
Surface applied only	3 qt/ton
UAN	Use Rate
28% and 32%	1.5-2.5 qt/ton
Manure	Use Rate
Surface-Field applied	2.27 oz/ton
Manure-Facility Applied (Livestock)	Use Rate
10 Head-Horses	.75 oz.
10 Head-Beef Cattle	.75 oz.
10 Head-Dairy Cattle	1 oz.
10 Head-Sheep	.5 oz.
100 Head- Poultry	.25 oz.
Hogs (Nursery)	.25 oz.
Hogs (Grower/Finisher)	.1 oz.
Manure-Facility Applied (Other)	Use Rate
Solid Manure	24 ounces/ton
Liquid	9 oz/ 100 gal

\* Read and follow application directions featured in label and manure product bulletin

#### Instructions for Manure Applications

##### MANURE - FIELD SURFACE

Ensure operators are wearing proper personal protection according to label directions N-Edge® nitrogen stabilizer may be used for manure applications in the field to reduce the volatility of the urea contained in livestock manure applied to the surface.

##### FIELD SURFACE -APPLICATION USE RATE PER TON OF MANURE

N-Edge® should be applied with water over the manure surface according to rate tables located on the product label. 50 gallons of water per acre should be the minimum for over the top applications.

Retreatment may be required if minimum rain of 0.75 inches has not occurred within one week after application. N-Edge® can be injected into load out/pump out system lines leading into application implements at a rate of 2.27 liquid ounces per ton to be applied on the soil surface.

#### MANURE - FACILITY APPLICATION

N-Edge® nitrogen stabilizer may be applied to manure in livestock holding facilities including manure pits and lagoons. Use Application use rates to determine the correct amount of N-Edge to incorporate into the pit. N-Edge® is effective up to one week after treatment. Apply the solution weekly. N-Edge® nitrogen stabilizer should be diluted with water for application. Use just enough water to dampen manure surface. Ensure that the amount of agitation needed for even distribution does not exceed that of normal practices. Apply treated product as soon as possible in order to mitigate the need for additional treatments. Best practice for application is determined by local conditions. Do not apply to feedstuffs or surfaces where animals will feed or drink including through slatted flooring.

#### ENVIRONMENTAL HAZARD

In the case of a spill, contain spill and maximize recovery.

#### STORAGE AND DISPOSAL

**Storage:** Store product in locked area. Store product in a tightly closed container in well-ventilated area. If allowed to freeze, allow product to fully thaw before use.

**Disposal:** Do not reuse empty container. Triple rinse (or equivalent) after mixing and loading product. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler, visit the ACRC web page at [www.acrcycle.org](http://www.acrcycle.org). Decontaminated containers and materials must be disposed of in a manner allowed by local, state, and federal laws and regulations.

#### IMPORTANT WARRANTY DISCLAIMER AND NOTICE

##### READ CAREFULLY BEFORE PURCHASE OR USE OF THIS PRODUCT

**Conditions of Sale and Warranty Limitation:** The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of CHS Inc. or the seller. All such risks shall be assumed by the buyer. CHS Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the inherent risks referred to above. CHS Inc. makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. In no case shall CHS Inc. or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. CHS Inc. and the seller offer this product, and the Buyer and the User accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CHS Inc.

**NET CONTENTS: 250 GALLONS**

**NET WEIGHT: 2,315.00 LBS (1,050.00 KG)**

**DENSITY OF 9.26 LBS PER GALLON**

