



FERTILIZER ADDITIVE FOR NITROGEN STABILIZATION

NOT A PLANT FOOD INGREDIENT OR FERTILIZER

ACTIVE INGREDIENTS:

N-(n-butyl)-thiophosphoric triamide (NBPT), NBPT Carbamide / Methanal Reaction product, hydroxyphenolic acids, diols, glycol diols, pyrrolidones, polyethoxylated hydroxyalkanes, and dimethylpolysiloxane 100.00%

Protected by US Patents 9,096,476 and 10,501,384

KEEP OUT OF REACH OF CHILDREN DANGER May be harmful if swallowed May be harmful in contact with skin Causes serious eye damage Causes skin irritation May be harmful if inhaled May cause respiratory irritation May damage fertility or the unborn child	
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CA PROPOSITION 65 ⚠ WARNING: This product can expose you to chemicals including N-methyl-2-pyrrolidone (872-50-4), which is known to the State of California to cause reproductive harm. For more information, go to www.P65Warnings.ca.gov.

WT. PER GAL.: 9.05 lbs. (4.11 kg)

SN 060321HAE

NET CONTENTS: □ 2.5 Gallons (9.46 L)
□ 265 Gallons (1003.13 L)
□ Bulk

F002593

MANUFACTURED FOR
HELENA AGRI-ENTERPRISES, LLC
225 SCHILLING BOULEVARD, SUITE 300
COLLIERVILLE, TN 38017
901-761-0050

FLOWTECH FORMULATION TECHNOLOGY
DUROMIDE

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES. May be harmful if swallowed. May be harmful in contact with skin. Causes serious eye damage. Causes skin irritation. May be harmful if inhaled. May cause respiratory irritation. May damage fertility or the unborn child. Keep product locked up and out of the reach of children. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clothing before reuse. Do not take internally. Avoid contact with or inhalation of spray application mist if present. 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 spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling. Not for human or animal consumption.

Personal Protective Equipment (PPE): Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, and shoes plus socks when using this product. Take off any contaminated clothing and wash before reuse.

FIRST AID	
IF IN EYES:	<ul style="list-style-type: none">Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none">Call a POISON CENTER or doctor immediately.Rinse mouth. Do NOT induce vomiting.Do not give anything by mouth to an unconscious person.Immediately call a POISON CENTER or doctor.
IF INHALED:	<ul style="list-style-type: none">Move person to fresh air and keep at rest in a position comfortable for breathing if they feel unwell.

Disclaimer: Always refer to the label on the product before using Helena or any other product.

	<ul style="list-style-type: none">If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.Call a POISON CENTER or doctor for treatment advice.
IF ON SKIN OR HAIR:	<ul style="list-style-type: none">Take off immediately all contaminated clothing. Rinse skin with water or shower.Get medical attention if irritation develops or persists.Wash contaminated clothing before reuse.
HOT LINE NUMBER Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

STORAGE AND DISPOSAL

N-FIXX® DURO is stable and free flowing in below freezing temperatures. Store in original container only. Keep packages tightly closed and do not allow water to be introduced to the container contents. Do not store near heat or an open flame.

CONTAINER DISPOSAL:

Empty packaging should be offered for recycling or disposed in accordance with Federal, State and local authorities. If packaging is burned, stay out of smoke. **N-FIXX® DURO** is not a fertilizer or pesticide product when considering applicable container disposal regulations. To assure proper rinse-out of containers prior to their disposal, a minimum of 2 pints of water should be added to each 2.5 gallon container for the first rinse cycle.

GENERAL INFORMATION

N-FIXX® DURO is a specialized fertilizer additive that reduces the loss of nitrogen that occurs when urea-based fertilizers are surface applied to crops. **N-FIXX® DURO** inhibits the activity of urease – an enzyme that converts urea nitrogen into the more volatile ammonia form. By reducing the formation of ammonia nitrogen, the loss of nitrogen from surface-applied fertilizer is minimized. **N-FIXX® DURO** is applicable for use with any nitrogen-consuming crop when used in conjunction with urea-based fertilizers.

NOTE: This product is not a fertilizer and should not be used as a substitute for one.

USE RECOMMENDATIONS

A number of factors in the application environment contribute to the degree and rate of nitrogen loss due to volatility. When considering the appropriate use rate of **N-FIXX® DURO** consideration should be given to these factors that are known to increase urea-nitrogen volatility:

1. High levels of soil moisture
2. The degree of soil dryness, sunlight, wind, and humidity
3. Conditions of high heat (both air and soil)
4. Soil pH (higher pH soils have greater potential for volatility)
5. Soil organic matter and CEC (low levels increase volatility potential)
6. Crop residue/stubble: High amounts of these materials tend to increase volatility potential due to their higher levels of urease.

APPLICATION RATES: (Per Ton Fertilizer)

Urea	2 Quarts/Ton
UAN	1 Quart/Ton

PREPARATION OF N-FIXX® DURO /UREA BLENDS

For direct blending/impregnation on urea, a fertilizer blender or equipment capable of mixing urea directly with **N-FIXX® DURO** is required. Rotary, auger, and paddle mixers are all applicable – but their surfaces must be clean, dry, and free of rust.

1. Personnel responsible for preparing **N-FIXX® DURO** /Urea mixtures should wear the following personal protection:
 - a) Long sleeves and pants
 - b) Neoprene gloves
 - c) NIOSH/MSHA approved organic mist vapor respirator should be worn in areas of poor ventilation and air-exchange. Avoid the generation of a mist when applying this product. If mist is generated, a full face piece respirator with supplied air is required.
 - d) Weigh the urea and transfer it directly to the blender. Measure the desired amount of **N-FIXX® DURO**, and apply directly to the urea.

NOTE: Make sure that the **N-FIXX® DURO** is fully blended with the urea before applying any other types of fertilizer.

- e) Blend the urea/**N-FIXX® DURO** mixture until coverage is uniform. **N-FIXX® DURO** contains a blue dye to help in the verification that blending is sufficient.
- f) **N-FIXX® DURO** stabilized urea may be stored for up to 10 weeks without significant degradation of active ingredient – provided the mixture is kept free of moisture – and up to 9 months if sealed in plastic bags.

Under certain temperature/humidity conditions, **N-FIXX® DURO**-treated fertilizer may clump together in the blender due to excess moisture. This situation may be prevented by including other types of fertilizers (e.g., potash) or by adding drying agents based

on attapulgite clay (e.g., AgSorb). Include the drying agent at the rate of 0.25-0.5% of the urea **N-FIXX® DURO** blend.

PREPARATION OF N-FIXX® DURO UREA-AMMONIUM-NITRATE (UAN) BLENDS

1. Personnel responsible for preparing **N-FIXX® DURO** /UAN mixtures should wear the following personal protection:
 - a) Long sleeves and pants
 - b) Neoprene gloves
 - c) NIOSH/MSHA approved organic mist vapor respirator should be worn in areas of poor ventilation and air-exchange.
 - d) Fill the spray application tank to ½ its volume with UAN. While maintaining agitation, add the desired amount of **N-FIXX® DURO** and mix well. Complete the mixture by adding the remainder of the UAN.
 - e) It is recommended that UAN/**N-FIXX® DURO** blends be applied soon after preparation. If necessary, the blend may be stored up to 10 weeks.
N-FIXX® DURO in UAN with a pH>7 is the best environment for storage.

COMPATIBILITY

N-FIXX® DURO treated fertilizers are compatible with most agricultural chemicals. Compatibility tests, however, are recommended prior to the preparation of spray mixtures that lack commercial history. It is also recommended that **N-FIXX® DURO** /UAN spray mixtures with pesticides, adjuvants, and other products be applied to the soil as soon as possible after preparation.

CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale—Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

This label is believed to be reliable and must be followed carefully. Injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Agri-Enterprises, LLC (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Agri-Enterprises, LLC's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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