

FACTOR[®]

UREASE INHIBITOR



ACTIVE INGREDIENT (Proprietary NBPT Blend)

N-(n-butyl) thiophosphoric triamide (NBPT) delivered as a 24.5% by weight solution.



GENERAL INFORMATION

FACTOR is a urease inhibitor for use with urea and UAN solution fertilizers. When applied with urea or UAN solutions, **FACTOR** inhibits the enzymatic activity of urease. By inhibiting the urease enzyme activity, ammonia losses from volatility are minimized.

FACTOR should be used with any nitrogen product that is urea-based and may be applied in all commercially grown crops and improved grass pastures.

FACTOR may be used when applying urea or UAN solutions for all forms of surface applications, including: Pre-Plant, Pre-Emergence, Side-Dress, Top-Dress or other Post-Plant applications.



DANGER!

COMBUSTIBLE LIQUID
CAUSES SKIN IRRITATION AND SERIOUS EYE DAMAGE
MAY CAUSE AN ALLERGIC SKIN REACTION
MAY CAUSE RESPIRATORY IRRITATION
MAY DAMAGE FERTILITY OR THE UNBORN CHILD
KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

Obtain special instructions before use. **Keep away from heat, sparks, open flame and hot surfaces. No smoking. In case of fire: use dry sand, dry chemical, alcohol resistant foam, carbon dioxide or water spray to extinguish. Use only outdoors or in a well-ventilated area. Wear protective face and eyewear, clothing and gloves. Contaminated clothing must not be allowed out of the workplace.** If medical advice is needed, have product container or label at hand. Avoid contact with eyes, on skin or clothing. Avoid breathing dust, fumes, gas, vapors or spray mist. Remove and wash contaminated clothing before reuse. Wash skin thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. If exposed or concerned get medical attention or advice. Do not handle until all safety precautions have been read and understood. See Safety Data Sheet for further details regarding safe use of this product.

APPLICATION RECOMMENDATIONS

Urea Blending

Use a fertilizer blender with impregnation equipment to uniformly coat the urea particles. Blend **FACTOR** with urea, before making a complete blend with other components. If blend appears wet, a drying agent may be added to the urea. *MP 79 is an example of a drying agent.* Add drying agent at 2 pounds per quart of **FACTOR** and adjust up or down as desired pending outcome.

Use Rate: 3.25 quarts (104 fl.ozs.) **FACTOR**/ton of urea.

UAN Solutions

Fill spray tank half full of UAN and add **FACTOR** directly to the UAN solution and agitate. Allow agitation to continue while adding remainder of UAN until thoroughly mixed into a complete solution with **FACTOR**.

Use Rate: 3.25 pints (52 fl.ozs.) **FACTOR**/ton of UAN solution.

NOTES

(Rates are based on 24.5% by weight active ingredient solution.)

FACTOR has good compatibility with UAN and pesticides. Not all possible combinations have been tested. A compatibility test is advised if the user has no experience with particular combinations of **FACTOR**, UAN and pesticide mixes.

Glyphosate herbicides may cause an increase in the rate of degradation when tank mixed with **FACTOR** urease inhibitor. This solution should be applied soon after mixing to avoid a possible reduction in the effectiveness of the active ingredient. There are no reentry restrictions unless **FACTOR** is used with pesticides or fertilizer materials that have such restrictions. Observe all precautions on label and read material safety data sheet before use. Do not apply directly to water. Do not contaminate waterways and sewers during cleaning of equipment or disposal of wastes. Always follow applicable federal, state, and local laws and regulations.

STORAGE & DISPOSAL

Store product locked up, tightly closed in its original container, in a cool, dry and well-ventilated place. Do not store near heat or open flame. Do not reuse container. Do not contaminate water, food or feed by storage or disposal. Store above 25°F. Product will degrade if stored at temperatures above 100°F.

Triple rinse (or equivalent) prior to disposal. Add rinsate to spray tank. Offer container for recycling or dispose of properly in accordance with all applicable regulations. If burned, stay out of smoke.

FIRST AID

IF SWALLOWED:

- Drink 8 – 16 ounces of water if conscious. Call a physician or poison control center immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES:

- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and immediately call a poison control center or physician.

IF ON SKIN:

- Wash affected skin with soap and water. Remove contaminated clothing and launder clothing before reuse. If irritation occurs, get medical attention or advice.

IF INHALED:

- Remove to fresh air and keep comfortable for breathing. Call a poison control center or physician if feeling unwell. If not breathing, give artificial resuscitation. If breathing is difficult, give oxygen and call a physician.

CONDITIONS OF SALE AND LIMITATIONS OF WARRANTY AND LIABILITY

Acceptance of Terms – By purchase or use of this product, buyer and user accept these conditions of sale and limitations of warranty and liability. If these terms are unacceptable, return the product unopened for a refund. **Warranty Disclaimers** – Rosen's Inc. and seller (collectively "Vendors") warrant that this product conforms to the chemical description on the label. **THIS PRODUCT IS SOLD "AS IS" AND VENDORS MAKE NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND SPECIFICALLY DISCLAIM THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT.**

Inherent Risks – The directions for use must be followed carefully. It is impossible to eliminate all risks associated with this product. Crop injury, ineffectiveness, or other unintended consequences may result due to factors beyond the control of Vendors. Buyer and user assume all risks associated with the use or handling of this product.

Limitations of Liability – To the extent consistent with applicable law, buyer or user's exclusive remedy for any and all claims, losses, injuries, or damages resulting from the use or handling of this product shall be limited to the purchase price paid, or at the election of Vendors, the replacement of this product. Vendors are not liable for any consequential, incidental, or special damages, including lost profits.

Manufactured for:

Rosen's Inc., 700 SW 291 Hwy, Ste. 204, Liberty, MO 64068
1-877-781-9191

Factor[®] is a registered trademark of Midtech R&D, Inc.
Patent Pending

For Chemical Emergency:
Call CHEMTREC day or night.
1-800-424-9300

NET CONTENTS (GAL): _____

NET WEIGHT: _____

FACTOR PLUS

UREASE INHIBITOR

ACTIVE INGREDIENT
(Proprietary NBPT Blend)
N-(n-butyl) thiophosphoric triamide (NBPT) delivered as a
40% by weight solution.



GENERAL INFORMATION

FACTOR PLUS is a urease inhibitor for use with urea and UAN solution fertilizers. When applied with urea or UAN solutions, **FACTOR PLUS** inhibits the enzymatic activity of urease. By inhibiting the urease enzyme activity, ammonia losses from volatility are minimized.

FACTOR PLUS should be used with any nitrogen product that is urea-based and may be applied in all commercially grown crops and improved grass pastures.

FACTOR PLUS may be used when applying urea or UAN solutions for all forms of surface applications, including: Pre-Plant, Pre-Emergence, Side-Dress, Top-Dress or other Post-Plant applications.



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HARMFUL IF SWALLOWED
CAUSES SKIN IRRITATION AND SERIOUS EYE DAMAGE
MAY CAUSE RESPIRATORY IRRITATION
MAY DAMAGE FERTILITY OR THE UNBORN CHILD
MAY CAUSE DAMAGE TO KIDNEYS THROUGH PROLONGED
OR REPEAT EXPOSURE
KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS

Obtain special instruction before use. Keep away from heat, sparks, open flame and hot surfaces. No smoking. In case of fire: use dry sand, dry chemical, alcohol resistant foam, carbon dioxide or water spray to extinguish. Wear protective face and eyewear, clothing and gloves. Do not breathe vapors, mist or spray. Do not eat, drink or smoke when using this product. If medical advice is needed, have product container or label at hand. Avoid contact with eyes, on skin or clothing. Remove and wash contaminated clothing before reuse. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. If exposed or concerned, get medical advice/attention. Do not handle until all safety precautions have been read and understood. See Safety Data Sheet for further details regarding safe use of this product.

APPLICATION RECOMMENDATIONS

Urea Blending

Use a fertilizer blender with impregnation equipment to uniformly coat the urea particles. Blend **FACTOR PLUS** with urea, before making a complete blend with other components. If blend appears wet, a drying agent may be added to the urea. *MP 79 is an example of a drying agent.* Add drying agent at 2 pounds per quart of **FACTOR PLUS** and adjust up or down as desired pending outcome.

Use Rate: 2.06 quarts (66 fl.ozs.) **FACTOR PLUS**/ton of urea.

UAN Solutions

Fill spray tank half full of UAN and add **FACTOR PLUS** directly to the UAN solution and agitate. Allow agitation to continue while adding remainder of UAN until thoroughly mixed into a complete solution with **FACTOR PLUS**.

Use Rate: 2.06 pints (33 fl.ozs.) **FACTOR PLUS**/ton of UAN solution.

NOTES

(Rates are based on 40% by weight active ingredient solution.)

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Glyphosate herbicides may cause an increase in the rate of degradation when tank mixed with **FACTOR PLUS** urease inhibitor. This solution should be applied soon after mixing to avoid a possible reduction in the effectiveness of the active ingredient.

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STORAGE & DISPOSAL

Store product locked up, tightly closed in its original container, in a cool, dry and well-ventilated place. Do not store near heat or open flame. Do not reuse container. Do not contaminate water, food or feed by storage or disposal. Store above 45°F. Product will degrade if stored at temperatures above 100°F.

Triple rinse (or equivalent) prior to disposal. Add rinsate to spray tank. Offer container for recycling or dispose of properly in accordance with all applicable regulations. If burned, stay out of smoke.

FIRST AID

IF SWALLOWED:

- Call a poison control center or physician if you feel unwell. Rinse mouth. Do not induce vomiting without medical advice. Do not give anything by mouth to an unconscious person. If conscious, keep at rest. Do not give anything to drink. Do not leave victim unattended. Vomiting may occur spontaneously. Risk of product entering lungs on vomiting after ingestion. Lay victim on side. Seek medical advice.

IF IN EYES:

- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and immediately call a poison control center or physician.

IF ON SKIN:

- Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF INHALED:

- Remove to fresh air and keep comfortable for breathing. Call a poison control center or physician if you feel unwell. If breathing is difficult, give oxygen. If victim has stopped breathing, administer CPR (cardio-pulmonary resuscitation). Get immediate medical advice/attention.

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