

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Christie Hitchcock Regulatory Specialist Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Rd., Suite 300 Raleigh, NC 27609

OCT 28 2008

Subject: Notification(s) for Label Revisions under PRN 2007-4

Dear Ms. Hitchcock:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 dated September 22, 2008 for:

EPA Registration 66222-163 **N-LOCK**

The Registration Division (RD) has conducted a review of the request(s) for applicability under 2007-4 and finds that the label changes requested fall within the scope of 2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identify the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by nonnotification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

Linda Arrington

Notifications & Minor Formulations Team Leader Registration Division (7505P)

Office of Pesticide Programs



September 22, 2008

Document Processing Desk (NOTIF) Registration Division (7504P) OPP, USEPA Ariel Rios Building 1200 Pennsylvania Ave, NW Washington DC 20460

Re:

N-LOCK™; EPA Reg. No. 66222-163

Notification per PRN 2007-4

To Whom It May Concern:

We are notifying the Agency of a label update as allowed in PR Notice 2007-4. The change is summarized below:

Updated container disposal instructions per PRN 2007-4

In support of this submission, the following documents are attached:

- Application for Pesticide Registration (EPA Form 8570-1)
- One copy of final printed labeling

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Please contact me at 919-256-9342 or by email at chitchcock@manainc.com if you have any questions regarding this submission or would like a copy of the annotated label showing the changes for your files.

Sincerely.

Christie Hitchcock

Regulatory Specialist

Enclosures

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Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires OPP Identifier Number Registration **United States Environmental Protection Agency** Amendment Washington, DC 20460 Other Application for Pesticide - Section I 1. Company/Product Number 2. EPA Product Manager 3. Proposed Classification 66222-163 Linda Arrington None Restricted 4. Company/Product (Name) N-LOCK™ Nitrogen Stabilizer Registration Support Branch 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Rd., Suite 300 8007 **8 %** 130 EPA Reg. No. Raleigh, NC 27609 Check if this is a new address Product Name NOTIFICATION Section - II Amendment - Explain below. Final printed labels in repsonse to Agency letter dated "Me Too" Application. Resubmission in response to Agency letter dated ____ Notification - Explain below. Other - Explain below. Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance of PR Notice 2007-4 and requirements of EPA's regulations at 40 CFR §§156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statements to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Section - III 1. Material This Product Will Be Packaged In: Water Soluble Packaging 2. Type of Container Child-Resistant Packaging Unit Packaging Yes Yes Matal Plastic Nο Nο No Glass If "Yes" Paper If "Yes" No. per No. per * Certification must Unit Packaging wgt. container Package wgt container Other (Specify) be submitted 3. Location of Net Contents Information 4. Size(s) Retail Container 5. Location of Label Directions on label 5 gals or less; more than 5 gals Container ✓ Other Self-adhesive 6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Title Telephone No. (Include Area Code) Name Christie Hitchcock 919-256-9342 Regulatory Specialist 6. Date Application Certification Revelved I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or (Stamped) both under applicable law. Regulatory Specialist 5. Date Christie Hitchcock 09-22-08

NOTIFICATION

OCT 28 2008

N-LOCK

Nitrogen Stabilizer

Use to control the nitrification process in the soil and delay nitrification of ammoniacal and urea nitrogen fertilizer compositions.

ACTIVE INGREDIENT: % BY WT. Nitrapyrin: 2-chloro-6-(trichloromethyl) pyridine24.0%

NOTIFICATION

OCT 28 2008

Contains petroleum distillates Contains 2 pounds of active ingredient per gallon.

Manufactured for:

Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Rd., Suite 300 Raleigh, NC 27609

EPA Reg. No. 66222-163

EPA Est. No.

Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

Net Contents: Gallons

KEEP OUT OF REACH OF CHILDREN WARNING-AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalie. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF ON SKIN OR	Take off contaminated clothing.
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for treatment advice.
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.
	• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
	Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	Immediately call a poison control center or doctor.
	Do not induce vomiting unless told to do so by a poison control center or doctor.
	Do not give any liquid to the person.
	Do not give anything by mouth to an unconscious person.
IF INHALED:	Move person to fresh air.
	If person is not breathing, call 911 or an ambulance, then give artificial
	respiration, preferably mouth-to-mouth if possible.
	Call a poison control center or doctor for further treatment advice.
Have the product co	ontainer or label with you when calling a poison control center or doctor, or going for

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

treatment. You may also contact Prosar at 1-877-250-9291 for 24-hour emergency medical help. NOTE TO PHYSICIAN: Contains petroleum distillate. Vomiting may cause aspiration pneumonia

WARNING. Harmful if inhaled, swallowed, or absorbed through skin. Causes moderate eye irritation so avoid contact with eyes. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. therefore avoid contact with skin. Avoid contact with clothing. Avoid breathing vapor or spray mist.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of wastes.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or Viton
- Shoes plus socks
- Protective eyewear

For more options of chemical-resistant materials than those listed above, follow the instructions for category G on an EPA chemical resistance selection chart.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170:240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove PPE clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon
 as possible, wash thoroughly and change into clean clothing.

PHYSICAL AND CHEMICAL HAZARDS

Combustible: Do not use or store near heat or open flame.

consult the agency responsible for pesticide regulation.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe,

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow entry into treated areas during the restricted entry interval (REI) of **24 hours**.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, includes:

- Coveralis
- Chemical-resistant gloves such as barrier laminate or Viton
- Shoes plus socks
- · Protective eyewear

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GENERAL USE INFORMATION AND PRECAUTIONS

Nitrogen fertilizers are required in large quantities for optimum production of many crops including corn, sorghum, and wheat. For economic and other reasons, it is very important to prevent the loss of this nitrogen through volatilization, leaching, or denitrification. Denitrification is the biochemical reduction of nitrates, under saturated conditions, to nitrogen gases and accounts for the majority of the nitrogen lost in most soils. One way to reduce the conversion of ammonium nitrogen to nitrates is to control the Nitrosomonas bacteria which are required for this reaction to proceed. The use of a nitrification inhibitor like N-LOCKTM delays the conversion of ammonium nitrogen to nitrate nitrogen for several weeks by controlling the activity of the soil bacteria.

N-LOCK™ nitrogen stabilizer is not a substitute for fertilizer. It is an oil-soluble product that may be used with urea fertilizers, anhydrous ammonia and dry ammonium in corn, sorghum, and wheat. N-LOCK™, when mixed with a compatibility agent, may be used in the application of aqua ammonia, other liquid ammoniacal or urea nitrogen fertilizer compositions. When liquid or dry ammonium, urea fertilizers, or animal wastes are surface applied, N-LOCK™ may be mixed with water and a compatibility agent and applied during the incorporation operation.

Chemigation: Do not apply N-LOCK™ through any type of irrigation system.

Corrosion Precaution: N-LOCK™ is corrosive to aluminum and may affect the operation of pumping, mixing, and application equipment. To minimize corrosion of submerged aluminum parts, especially when N-LOCK™ is mixed with anhydrous ammonia, replace all aluminum parts with parts constructed of mild steel or stainless steel materials. Side-mount or end-mount liquid level float gauges containing aluminum should be replaced with stainless and mild steel gauges. To further minimize corrosion of equipment and for maximum effectiveness, do not store anhydrous ammonia containing N-LOCK™ longer than 3 weeks. Acme fitting gaskets should be replaced as needed with standard Buna-N or Buna-S gaskets. More resistant gasket materials such as Teflon may also be used.

Equipment Cleanup: To avoid damage to spray equipment, rinse application equipment used to apply liquid fertilizers and N-LOCK™ with water after each application.

MIXING DIRECTIONS

Compatibility Agent: Some of the applications suggested for N-LOCK™ require the use of a compatibility agent. Be sure to use a compatibility agent registered for agricultural use where required. Most phosphate ester types of compatibility agents are useful in these mixtures. Follow the label directions for the compatibility agent to determine rates and any use precautions.

Application with Liquid Manure

Apply 1 to 2 quarts N-LOCK™ per acre when mixing with liquid animal manure. The 2 quart per acre rate is recommended for all fall applications with liquid animal manure. Be sure to premix N-LOCK™ and a phosphate ester compatibility agent at a ratio of 1 part phosphate ester compatibility agent to 8 parts N-LOCK™ before adding the N-LOCK™ mixture to the liquid animal manure.

Application with Anhydrous Ammonia

N-LOCKTM is soluble in liquid anhydrous ammonia. It may be pumped into the anhydrous tank through the liquid fill valve before, during, or after loading. Be sure to use properly calibrated pumping and metering systems to inject N-LOCKTM into the tank. The mixture of ammonia containing N-LOCKTM should then be applied to cropland using conventional ammonia application equipment. **Note:** Although a tank mixture of N-LOCKTM with anhydrous ammonia is the preferred method of application, this mixture may also be applied through downstream injection systems.

Application with Liquid Fertilizers

N-LOCK™ may be mixed with liquid fertilizers such as aqua ammonia or other liquid ammoniacal or urea nitrogen fertilizer compositions if a compatibility agent is used. Follow one of the following methods to create a stable emulsion with N-LOCK™ in liquid fertilizer: (1) Premix the compatibility agent and N-LOCK™ in a separate container and then under continuous agitation add the mixture to the liquid fertilizer; or, (2) add the compatibility agent to the fertilizer under continuous agitation and then add the required amount of N-LOCK™ to the cark.

Application with Granular Ammonium and Urea

N-LOCK™ may be impregnated on most dry ammoniacal fertilizers or fertilizer blends containing ammoniacal fertilizers. To ensure optimum results, make a uniform application to the field and incorporate immediately.

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Use a closed rotary drum mixer equipped with suitable spraying equipment for impregnating N-LOCK™ on dry Be sure to position the spray nozzle inside the mixer to provide uniform spray coverage of the tumbling fertilizer. The rate of N-LOCK is determined by the rate per acre specified in the crop section in this label. Do not add more than 1 quart N-LOCK™ per 100 pounds of nitrogen fertilizer or add less than 1 quart N-LOCK™ per 500 pounds of nitrogen fertilizer. At the higher concentrations of N-LOCK™, the fertilizer may not readily absorb all of the liquid. If this is the case, add an absorptive powder such as Micro-Cel E separately and uniformly to the fertilizer blend following addition of N-LOCK™.

Always apply bulk fertilizers impregnated with N-LOCK™ immediately and do not store. To prevent loss of N-LOCK™ by volatilization, be sure that bulk containers are tightly covered while the products are being transported and applied. Incorporate all fertilizers impregnated with N-LOCK™ immediately after application for optimal performance.

Note: All individual state regulations including those related to flammable liquid handling and to dry bulk blending registration, labeling, and application are the responsibility of the individual and/or company selling N-LOCK™ on fertilizer mixtures.

Precautions:

- Do not use N-LOCK™ with dry fertilizers containing nitrate such as ammonium nitrate, potassium nitrate, or calcium nitrate.
- Do not mix seed with dry fertilizers impregnated with N-LOCK™.

TANK MIXING WITH HERBICIDES

On corn and sorghum, N-LOCK™ may be applied in tank mixtures with some preplant incorporated herbicides. Check local crop recommendations to determine which preplant incorporated herbicides are registered for use on The mixtures may be in water in most urea-ammonium nitrate solutions, or in N-P-K solutions, slurries, or suspensions. The physical compatibility of these tank mixtures should be determined before combining in the spray tank. See the section below on testing for tank mix compatibility.

Always maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Read and carefully follow all applicable directions including dosage rates, restrictions, and precautions for the specified crops on labeling for the other products used in combination with N-LOCK™.

N-LOCK™ may be tank mixed with herbicides in water or liquid fertilizers using the following mixing sequence:

- 1. Fill the spray tank ½ full of water or liquid fertilizer.
- 2. Begin agitation.
- 3. Add a compatibility aid, if needed. (If water slurried premixes of wettable powders or flowables are used as in Steps 4 and 5, a compatibility aid may be added to the premix for convenience.)
- 4. Add wettable powder formulations to the tank (make the water slurry with wettable powders first).
- 5. Add flowable formulations to the tank.
- 6. Add emulsifiable concentrate formulations including N-LOCK™ to the tank (premix 1:2 with water first if introduced to the tank through eductor systems.)
- 7. Add the balance of the water or liquid fertilizer and continue agitation until tank is empty.

Note: The compatibility of N-LOCK™ with liquid fertilizers and/or herbicide mixtures may be determined by adding proportionate amounts of each ingredient to a small jar, shaking the capped jar, and then letting the mixture stand for 15 minutes. If a precipitate forms or the mixture separates and these do not readily redisperse. an incompatible mixture is likely and it should not be applied.

CORN

Application Method: Preplant or At-Plant Row or Band Injection

1 quart N-LOCK™ per acre Rate:

N-LOCK™ must be injected or incorporated in a zone or band in the soil with the fertilizer Specific Directions:

at a minimum depth of 2 to 4 inches during or immediately after application.

Application Method: Preplant or At-Plant Broadcast Application

Rate: 1 to 2 quarts N-LOCK™ per acre **Specific Directions:** The higher rate is preferred when fall applications are made to spring-planted crops. N-LOCK™ must be injected or incorporated in a zone or band in the soil with the fertilizer at a minimum depth of 2 to 4 inches during or immediately after application.

Application Method: Postplant (Side Dress) Application **Rate:** 0.5 to 1 quart N-LOCK™ per acre

Specific Directions: Make application anytime after crop emergence but before 30 days postplant. N-LOCK™ must be injected or incorporated in a zone or band in the soil with the fertilizer at a minimum depth of 2 to 4 inches during or immediately after application.

Application Method: Split Application

Rate: 0.5 to 1 quart N-LOCK™ per acre

Specific Directions: A second application may be made postplant following a preplant or at-plant application. The higher rate is recommended where nitrogen fertilization is geared to high yield production. N-LOCK™ must be injected or incorporated in a zone or band in the soil with the fertilizer at a minimum depth of 2 to 4 inches during or immediately after application.

RESTRICTIONS:

Do not apply more than 2 quarts N-LOCK™ per acre per year.

Make only 1 postplant application per year and make it within 30 days of planting.

• Corn, sorghum, and wheat may be rotated in less than 1 year from the last application. All other crops must be planted at least 1 year after the last application.

SORGHUM AND WHEAT

Application Method: Preplant or At-Plant Row or Band Injection

Rate: 1 quart N-LOCK™ per acre

Specific Directions: N-LOCK™ must be injected or incorporated in a zone or band in the soil with the fertilizer at a minimum depth of 2 to 4 inches during or immediately after application.

Application Method: Preplant or At-Plant Broadcast Application

Rate: 1 to 2 quarts N-LOCK™ per acre

Specific Directions: The higher rate is preferred when fall applications are made to spring-planted crops. N-LOCKTM must be injected or incorporated in a zone or band in the soil with the fertilizer at a minimum depth of 2 to 4 inches during or immediately after application.

RESTRICTIONS:

- Do not apply more than 2 quarts N-LOCK™ per acre per year.
- Make only 1 postplant application per year.
- Corn, sorghum, and wheat may be rotated in less than 1 year from the last application. All other crops must be planted at least 1 year after the last application.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store in original container and keep tightly closed. Store above 28°F to keep product in solution. If stored below 24°F, crystals may form and settle to the bottom of the container. To redissolve the crystals, allow the contents to warm up to about 70°F and to stand for several days at that temperature. Once the crystals have dissolved, roll the container gently to get a uniform mixture of the contents.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Nonrefillable Container (five gallons or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer it for recycling or reconditioning, or puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Container (greater than five gallons): Nonrefillable container. Do not reuse container.

Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer it for recycling or reconditioning, or puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

Refillable Container: Refillable container. Refill this container with the active ingredient nitrapyrin only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE), CALL INFOTRAC AT 1-800-535-5053.

LIMITATION OF WARRANTY AND LIABILITY

Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY.**

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the 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 the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Makhteshim Agan of North America, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Makhteshim Agan of North America, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Makhteshim Agan of North America, Inc.'s election, the replacement of product.

N-LOCK™ is a trademark of Makhteshim Agan of North America, Inc.

N-LOCK Nitrogen Stabilizer (66222-163)(EPA app 4-2-08)(notif to EPA 09-22-08)