



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

September 25, 2015

Liane Jenkins  
Senior Regulatory Compliance Specialist  
Lonza, Inc.  
90 Boroline Road  
Allendale, NJ 07401

Subject: Label Amendment – Adding broadcast application methods to Corn and Soybean and revising Poisoning Hotline phone number  
Product Name: US-LON-A  
EPA Registration Number: 6836-350  
Application Date: 6/17/15  
Decision Number: 506774

Dear Ms. Jenkins

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

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Decision No. 506774

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Marianne Lewis by phone at (703) 308-8043, or via email at [lewis.marianne@epa.gov](mailto:lewis.marianne@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'VE', followed by a horizontal line extending to the right.

Venus Eagle, Product Manager 01  
Invertebrate and Vertebrate Branch 3  
Registration Division (7505P)

Enclosure

(Note to reviewer: Language in ( ) is optional, interchangeable or a comment for the EPA reviewer)

**US-LON-A**

Active Ingredient:	
Metaldehyde (2,4,6,8-Tetramethyl-1,3,5,7-tetraoxycyclo-octane) .....	3.0%
Other Ingredients: .....	<u>97.0%</u>
Total:	100.0%

**KEEP OUT OF REACH OF CHILDREN**

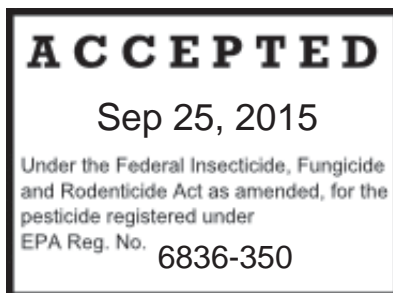
**CAUTION**

See (left) (side) (right) (back) panel for First Aid and (additional) precautionary statements.

EPA Reg. No. 6836-350  
 EPA Est. No. {Insert EPA Est. No.}  
 NET WT: \_\_\_\_\_  
 (Made in {insert country of origin})  
 (Manufactured in {insert country})

[Barcode]

Lonza Inc.  
 90 Boroline Road  
 Allendale, New Jersey 07401



(Note to reviewer: The sections on this page must appear in the order shown.)

<b>FIRST AID</b>	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>POISONING HOTLINE:</b> Seek medical care as soon as possible after exposure. For incidents involving animals, seek veterinary care as soon as possible after exposure. Have the product container or label with you when calling a poison control center or doctor or veterinarian, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, treatment advice, or pesticide incidents), call 1-800-654-6911.	
<b>Metaldehyde is a systemic toxin. There is no antidote. The following instructions are not intended for lay people. There is no home treatment. Exposed individuals and animals should receive emergency care as quickly as possible.</b>	
<b>NOTE TO PHYSICIAN</b> Dust inhalation is usual route of accidental exposure; the product is rarely ingested. Treatment is symptomatic and supportive. Monitor severe exposures closely: seizures, electrolyte imbalances, acidosis, dehydration, and increased body temperature have been reported.	
<b>NOTE TO VETERINARIAN:</b> Animals typically are exposed via ingestion. Treatment is symptomatic and supportive. If significant ingestion suspected, and the animal is asymptomatic, consider induction of emesis or gastric lavage and administration of activated charcoal, cathartic and enema to limit absorption. Monitor asymptomatic and symptomatic animals closely. Treat seizures, electrolyte imbalances, acidosis, dehydration, and increased body temperature. Monitor liver function post recovery.	

## **PRECAUTIONARY STATEMENTS**

### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust.

**IMPORTANT:** This pesticide can be harmful to children and fatal to domestic animals when ingested. Children and dogs may be attracted to the product. Application of this product is prohibited unless children and domestic animals can be excluded from the treated area from the start of the application until applied material is no longer visible.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirts and long pants,
- Shoes plus socks.
- Chemical resistant gloves made of: barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils, or viton ≥ 14 mils

### **USER SAFETY REQUIREMENTS**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

(Note to reviewer: The following section must appear in a box.)

### **USER SAFETY RECOMMENDATIONS**

#### **Users should:**

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

### **ENVIRONMENTAL HAZARDS**

This pesticide is toxic to mollusks (e.g., clams, oysters, scallops, mussels). Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment rinse waters or rinsate.

This pesticide is toxic to birds and mammals. Granules on soil surface may be hazardous to terrestrial wildlife. Cover or collect any such materials spilled during loading.

**(Note to reviewer: The following is considered optional marketing language:)**

Meta Logo:



Contains Meta® (metaldehyde), “The Molluscicide”

A soil surface treatment for control of snails and slugs around ornamentals, listed small fruits & berries, citrus, listed vegetable crops and grass grown for seed.

For control of SNAILS and SLUGS

For more information (visit) [www.metaworksbest.com](http://www.metaworksbest.com)

(Product Name) – Granular Bait Containing 3% (w/w) Metaldehyde

(Product Name) is a pelleted (ready to use) molluscicide for the control of slugs in listed agricultural crops (list crops).

Slug Control

(This Product) pellets are an effective metaldehyde containing bait application which are readily ingested by slugs, especially by species belonging to the genera (Arion (e.g. Arion hortensis, A. circumscriptus), Deroceras (e.g. Deroceras laeve, D. reticulatum), Milax (e.g. Milax gagates) and the snail Helix aspersa. After ingestion slugs are immobilized. Death follows by destroying the mucus-forming tissue and the resulting loss of water. Best results are achieved by application during mild damp weather when slugs are most active but when rain is not expected.

Wet-Extruded Slug Pellet

Meta® is a registered trademark of Lonza Ltd.

## DIRECTIONS FOR USE

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

**IMPORTANT:** Read entire label. Use in accordance with precautionary statements and directions, and with applicable Federal and State regulations. **DO NOT APPLY DIRECTLY ONTO PLANTS.** Do not allow bait to contact the edible portion of any food crop.

### 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 (REI). 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 worker entry into treated areas during the restricted-entry interval of 12 hours.

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

### FOR STATE AND/OR FEDERAL INVASIVE MOLLUSK ERADICATION OPERATIONS

This product may be used only on the following use sites in response to State and/or Federal invasive mollusk eradication operations.

Broadcast applications of this product may be made to the following use-sites for State and/or Federal invasive mollusk eradication operations: fallow land; barrier strips; uncultivated non-agricultural areas; recreational areas; non-food or non-feed brush; weed or dense vegetative areas; railroad, pipeline, highway, power and telephone rights of way and roadsides; guardrails and fences; lumberyards; storage areas; seaports; industrial facility sites, including yards and walkways around industrial buildings, parking areas, parks, golf courses, other public areas; and airport and similar industrial non-crop areas.

This product may be applied for State and/or Federal invasive mollusk eradication operations at an individual application rate of no more than 2 lb ai/A, and at no more than six applications/year.

### RESTRICTIONS

This product is intended solely for use on agricultural crops grown for commercial or research purposes, and in State and/or Federal invasive mollusk eradication operations. This product may not be applied to residential sites (i.e., in yards, gardens, around homes and apartments) and other sites such as the exterior areas around schools and daycare facilities, and athletic fields, playgrounds, parks, recreation areas, etc.

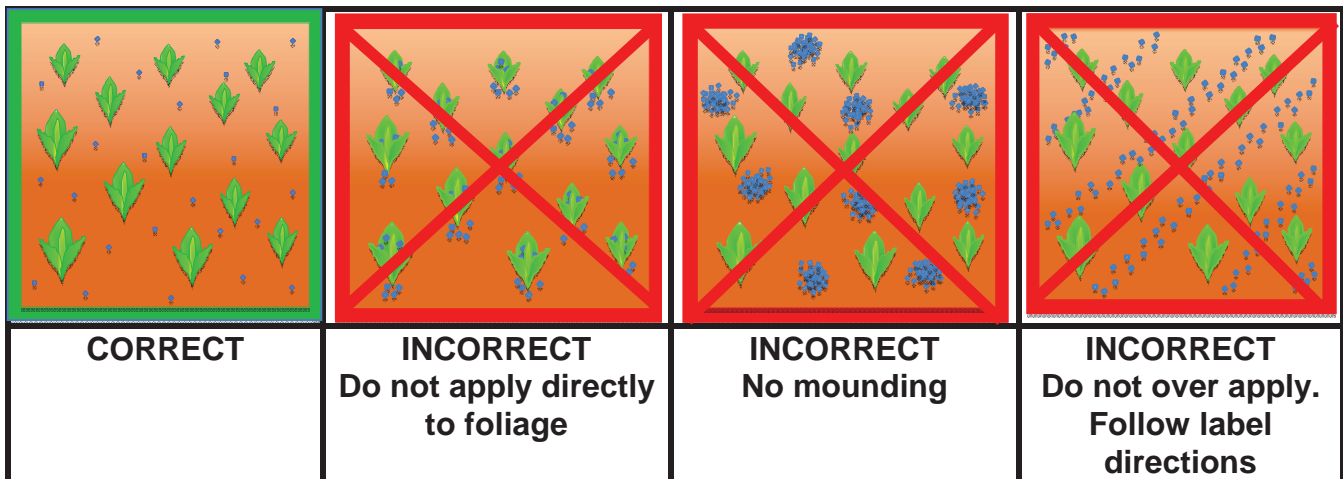
Broadcast applications and applications of this product directed to plant parts are prohibited except to grass grown for seed, taro, corn, soybean, grass grown for forage and hay, and clover (grown for seed) and as specified for use in State and/or Federal invasive mollusk eradication operations.

**When to Apply:**

- Apply when first plant damage appears or is anticipated.
- For best results, apply after irrigation
- Apply any time of the day; however, evening applications are preferred
- Number of applications allowed per season are indicated in table below

**How to Apply**

- (This product) should never be applied to dry soil.
- Applications should be made following irrigation for best results.
- Apply by hand or with commercial application equipment designed for banded application of granular products. Unless broadcast application is specifically permitted for the crop being treated.
- For Artichokes, Beans, Berries, Ginseng, Peas, Vegetables, Mint, Tomatoes, and Strawberries: Apply in band between rows and/or directed toward base of the plants. Do not apply as a wide-area broadcast.
- For Citrus application: Apply in a band under tree canopy. Do not apply as a wide-area broadcast.
- For Grass Grown for Seed, grass grown for forage and hay, taro: Apply by broadcast application.
- For Clover grown for seed, corn, soybean: Apply as a perimeter treatment at planting and then for then for the subsequent application by broadcast, directing the product to the soil.
- For Clover, forage and hay: Apply as a perimeter treatment.
- Apply after formation of edible parts unless otherwise instructed under Application Rates.
- Do not re-water for 48 hours after application
- Apply as a soil surface treatment
- Do not apply directly to or contaminate edible portions of the plant
- Do not mix with any seeds prior to application
- Do not use in or around Hanalei, Kaua'i (USFW Refuge)





## APPLICATION RATES:

For artichokes, beans, listed berries, ginseng, strawberries, clover (for forage and hay), celery, rhubarb, Swiss chard, Chinese celery, celtuce, cardoon, Florence fennel, lettuce, cole crops and other specified leafy greens, mint, peas, prickly pear cactus and tomatoes: Apply in a band, between borders, and around perimeter of crop by hand or with commercial application equipment designed for banded application of pelleted products.

For Clover grown for seed Corn, Soybean: Apply as a perimeter treatment at planting and then for the subsequent applications by broadcast, directing the product to the soil

For Citrus: Apply in band under canopy

For Grass grown for seed, forage or hay, taro: Apply in broadcast application, directing product to soil

<b>FOR USE ONLY AS AN AGRICULTURAL MOLLUSCIDE</b>					
<b>Crop</b>	<b>Maximum rate/application (lbs product/A)</b>	<b>Maximum number of application/growing season</b>	<b>Minimum Retreatment Interval period (days)</b>	<b>Preharvest Interval (days)</b>	<b>Maximum number of application/year</b>
<b>Artichoke (annuals)</b>	33.3	2	18	0	4
<b>Artichoke (perennials)</b>	33.3	6	18	0	12
<b>Berries***</b>	26.6	3	14	0	3
<b>Celery, Rhubarb, Swiss Chard, Chinese celery, Celtuce, Cardoon and Florence Fennel</b>	33.3	4	21	1	8
<b>Citrus</b>	33.3	6	14	0	6
<b>Clover (seed crop)</b>	26.6	2	10		2
<b>Clover (forage and hay) Only for use in Pacific Northwest (Oregon, Washington &amp; Idaho)</b>	26.6	2	10	30	2
<b>Ginseng</b>	33.3	6	21	21	6
<b>Lettuce, Cole Crops and the following leafy greens: broccoli, Brussels sprouts, cabbage, cauliflower,</b>	33.3	3	14	0	6

<b>cavalo, broccolo, collards, kale, kohlrabi, mizuna, mustard greens, spinach, rape greens</b>					
<b>Mint (Peppermint, Spearmint and their Oils)</b>	33.3	4	21	1	4
<b>Ornamentals</b>	33.3	6	21	0	6
<b>Peas and Bean</b>	33.3	3	7	Pre-bloom	6
<b>Peas and Bean (forage and hay)</b>	33.3	3	7	1	6
<b>Prickly Pear Cactus</b>	26.6	3	30	0	3
<b>Strawberries</b>	33.3	3	14	0	6
<b>Tomatoes</b>	33.3	3	14	0	6

\*\*\* Caneberries (bingleberry, black raspberry, blackberry, boysenberry, dewberry, loganberry, lowberry, marionberry, olallieberry, red raspberry, wild raspberry, youngberry); Bushberries (aronia berry, blueberry, buffalo currant, Chilean guava, black and red currant, elderberry, European barberry, gooseberry; cranberry, honeysuckle; huckleberry, jostaberry, juneberry, lingonberry, salal, sea buckthorn); Low Growing Berries (bearberry, bilberry, cloudberry, muntries, partridgeberry)

For corn & soybean apply as a perimeter treatment at planting and then for the subsequent applications by broadcast, directing the product to the soil.

Crop	Growth Stage <sup>1</sup>	Maximum rate/application (lbs product/A)	Maximum number of application / growing season <sup>3</sup>	Minimum Retreatment Interval period (days)	Preharvest Interval (days)	Maximum number of application/ year	Application Information
Corn (field)*	Up to V8	33.3	4	7	0	4	Perimeter treatment prior to Broadcast
Corn (field)*	V8 – VT	33.3	4	7	0	4	Ground directed only
Soybean <sup>2</sup>	Up to V4	13.3	3	7	0	3	Perimeter treatment prior to Broadcast
Soybean <sup>2</sup>	V4 – R1	13.3	3	7	0	3	Ground directed only

\*Corn applications must be completed no later than flag stage

<sup>1</sup>Growth stages are according to the Iowa State University Crop Guides:

Corn - <http://www.agronext.iastate.edu/corn/docs/corn-field-guide.pdf>

Soybean - [http://extension.agron.iastate.edu/soybean/production\\_growthstages.html](http://extension.agron.iastate.edu/soybean/production_growthstages.html)

<sup>2</sup>Only for use in the following States: Alabama, Arkansas, Connecticut, Delaware, Georgia, Louisiana, Maine, Maryland, Massachusetts, Mississippi, North Carolina, New Hampshire, New Jersey, New York, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia. Livestock may not graze in the treated fields. Applications must be completed prior to pod formation.

Crop	Maximum rate/application (lbs product/A)	Maximum number of application / growing season <sup>3</sup>	Minimum Retreatment Interval period (days)	Preharvest Interval (days)	Maximum number of application/ year
Grass (grown for seed)	26.6	4	21	21	4
Grass (Forage and Hay)	26.6	4	14	21	4
Taro (wetland) <sup>1</sup>	25	7	35	7	7

<sup>1</sup>Apply by broadcast application under flooded conditions only. Prior to bait application, stop the water flow into and out of the lo'i (paddies) to be treated; water level should be high enough such that apple snails don't estivate. Apply the bait and hold/impound the water for a minimum of 3 days before allowing water to exit the lo'i. Do not apply more than one application per held/impounded water. If the water level in the lo'i becomes too low within the 3 day holding period (due to faster percolation of water through the soil), such that apple snails begin to estivate, allow additional water into the lo'i.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### **PESTICIDE STORAGE:**

This product can be harmful to children and fatal to dogs and other domestic animals if ingested. Dogs have been known to ingest Metaldehyde after opening or tearing packaging. Store this product in its original packaging, in a cool, secure location, and out of reach of children and pets.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. 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 the label instructions, contact your State Pesticide or Environmental Control Agent or the hazardous waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment. Offer for recycling, if available or dispose of empty container in a sanitary landfill, or by incineration.

## WARRANTY DISCLAIMER

**The directions for use of this product must be followed carefully. TOTHE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVEREDTOYOU ARE FURNISHED "AS IS" BY LONZA OR THE SELLER AND (2) LONZA AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD OR USE OF THE PRODUCT, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, THE MANNER OF USE OR APPLICATION, OR WEATHER CONDITIONS, ALL OF WHICH ARE BEYOND THE CONTROL OF LONZA AND SELLER AND ARE ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, LONZA AND SELLER, AND NO PERSON OR AGENT OF LONZA OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY BEYOND THOSE CONTAINED HEREIN.**

## LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NEITHER LONZA NOR SELLER SHALL BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RESULTING FROM THE USE, APPLICATION, STORAGE, HANDLING, AND DISPOSAL OF THIS PRODUCT.TOTHE EXTENT CONSISTENT WITH APPLICABLE LAW, NEITHER LONZA NOR SELLER SHALL BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY LONZA OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BYTHE BUYER, USER, OR ITS CUSTOMERS.TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND LONZA'S OR SELLER'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

**If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.**