

70644-1

12/07/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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WASHINGTON, D.C. 20460

DEC 07 2011

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Kim Davis, Agent
LidoChem, Inc.
c/o RegWest Company, LLC
Greeley, CO 80634-4696

Subject: EksPunge™
EPA Registration No. 70644-1
Label Amendment to add Leafy Vegetables and their corresponding use directions to the product label
Decision # 454031
Application Dated: August 26, 2011

Dear Mrs. Davis:

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(5), is **acceptable** provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit three (3) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(b). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

If you have any questions contact Ms. Menyon Adams at 703-347-8496 or by email at: adams.menyon@epa.gov. A stamped copy of the label is enclosed for your records.

Sincerely,

CONRAD ADAMS, Chief

SYMBOL	▶ 7511P	7511P		Biochemical Pesticides Branch		
SURNAME	▶ Adams	COLE		Biopesticides and Pollution		
DATE	▶ 12/07/11	12/5/11		Prevention Division (7511P)		

* Patented Production Process *

[EksPunge (Date Code)]

EksPunge™

[[Select marketing claims from *Marketing Claims* section below]]

Active Ingredient: Potassium Dihydrogen Phosphate 100%

Crop Protection with EksPunge™

Keep Out of Reach of Children

CAUTION

See back panel for First Aid and additional Precautionary Statements.
Precaucion al usuario: Si usted no lee ingles,
no use este producto hasta que la etiqueta haya sido explicada ampliamente.

EPA Reg. No. 70644-1

ACCEPTED

DEC 07 2011

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg. No. 70644-1

- EPA Est. 70644-NJ-1
- EPA Est. 67536-FL-1
- EPA Est. 14322-NY-1
- EPA Est. 2935-CA-1
- EPA Est. 66196-CA-1
- EPA Est. 82408-ISR-1

Net Weight: _____ pounds (____ kg)
{1, 2, 2.7, 3, 5, 8, 10, 20, 24, 40 or 50 pounds}

[EksPunge (Date Code)]

{Back Panel}

First Aid

If Inhaled:	<ul style="list-style-type: none"> • 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.
If Swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on Skin or Clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Immediately rinse skin with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in Eyes:	<ul style="list-style-type: none"> • 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.
Hot Line Number: Have the product container or label with you when calling a poison control center or doctor or when going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Thoroughly wash with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

Environmental Hazards

For terrestrial uses: 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 equipment wash water or rinsate.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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

User Safety Recommendations

Users should:

- Immediately remove clothing/PPE if pesticide gets inside, then thoroughly wash and put on clean clothing.
- Immediately remove PPE after handling product. Wash the outside of gloves before removing. As soon as possible, thoroughly wash and change into clean clothing.

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 worker entry into treated areas during the restricted-entry interval (REI) of four (4) hours.

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 is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Do not enter treated area without protective clothing until sprays have dried.

Engineering Controls

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.

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

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 (long sleeved shirt, long pants, waterproof gloves, shoes and socks) are to be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Crop Protection with EksPunge

EksPunge is a soluble crystalline product to be mixed with water. Application rates vary according to the specific volumes of water applied to the crop. When the crop can be completely covered with the spray solution, use the lower range of spray volumes. Surfactant use and spray efficiency will impact coverage. Select a water volume and corresponding rate of EksPunge necessary to thoroughly spray/mist all fruit and foliage surfaces. Gradually add the specific amount of product to a half-filled sprayer tank and mix, then add the balance of required water while continuing to agitate the solution. Always add EksPunge to the tank mix first, then add other products after all EksPunge has been completely solubilized. **Add an approved/compatible "spreader-sticker" to the solution to assure complete spray coverage of plant surfaces.** Plant disease pressure can increase when plant surfaces are frequently wet and temperatures are warm. Under these severe disease conditions, use the higher spray rate and apply at the shorter spray interval.

EksPunge suppresses existing mildew disease and inhibits further development of new mildew growth on plant tissue. Use alone, in alternating applications or in tank-mix spray programs with other compatible, EPA-approved fungicides. It is rapidly absorbed by the plant and is mobile within the plant tissues, improving the potassium and phosphorous content in the plant. It therefore acts in a dual role as a biocompatible fungicide for plant disease control and as an essential plant food. EksPunge will also acidify/buffer your spray tank solution to help reduce alkaline hydrolysis of other compatible, tank-mixed materials.

Best performance is attained by beginning EksPunge applications prior to the onset of disease, as a preventative disease control program. **DO NOT MIX with copper fungicides or with any spray materials that warn against low pH (<5.5) applications.**

Important

Resistant Powdery Mildew Fungus Strains May be Present!

If treatment is not effective following use of conventional fungicides as instructed, a resistant strain of the fungus may be present. If this occurs, then fungicides such as benzimidazole, thiophanate or DMI type will not give effective control. When resistant fungus strains are present, give serious consideration to the use of EksPunge for effective mildew control and crop protection. EksPunge controls mildew strains that are resistant to other fungicides and is a valuable *resistance management* tool. The pH of a 1% aqueous solution of EksPunge is 4.5 ± 0.3.

0-50-32

Guaranteed Analysis:	Available Phosphate (P ₂ O ₅)	50%
	Soluble Potash (K ₂ O)	32%

Derived from: Monopotassium Phosphate

Product Description

EksPunge is manufactured specifically as a low salt, water soluble, foliar and special application fungicide and plant nutrient. Its use is suggested as a supplement to a grower's standard practice fungicide and fertilizer programs. The target is reduced pesticide use and enhanced yield and quality. EksPunge is a highly soluble, low salt index formulation developed to supplement standard fertility practices by providing a highly available source of phosphorous and potassium.

Research has shown that foliar-applied nutrients, in a pure and soluble form, are absorbed more efficiently by foliage than are those supplied in the soil. Nutrient translocation to all parts of the plant is generally more rapid when nutrients are applied foliarly. Foliar fertilization with EksPunge is intended as a supplement to a regular fertilization program and will not, by itself, provide all the nutrients normally required by agricultural crops.

A good tissue testing program may be helpful to monitor and maintain optimum plant growth and development. Adverse conditions such as moisture, stress, weather, salts, soil type, etc., may induce nutrient deficiency symptoms. When applied as directed, EksPunge application is a means of obtaining a quick response to needed nutrients.

Salt Index: 8.4 (0.097 per 1% of plant nutrient)
pH (1% aqueous solution): 4.5 ± 0.3

Mixing Directions

- * Fill tank approximately 1/2 full of water before gradually adding EksPunge. Thoroughly agitate while adding EksPunge and the remaining water. When tank mixing, add pesticide last.
- * When temperatures are cold, allow extra time for this product to completely dissolve.
- * Research has demonstrated enhanced uptake with the addition of a surfactant. Do not use with surfactants when plants are under severe stress conditions, such as heat or water stress. Immediately begin applications after adverse stress conditions subside.
- * Mix EksPunge at 1.9 lbs. or less per gallon of water. Consider the pH of the solution when using concentrations greater than 1-1.9 lbs. per gallon. Do not store high concentration mixes in temperatures less than 60°F.

Compatibility

EksPunge is compatible with most pesticides and liquid fertilizers. Apply EksPunge in an alternating tank mix program. **Tank Mix Compatibility Testing:** Perform a jar test prior to tank mixing to ensure compatibility of this product with other products. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, jells, has oily films, layers or other precipitates, it is not compatible; do not use the tank mix combination.

NOTE: EksPunge acts as a buffer resulting in an acidic spray solution. Do not combine EksPunge with copper fungicides or with any spray materials that warn against low pH (<5.5) solutions. Always test tank mixes for compatibility, via a jar test, before mixing large batches. In accordance with local crop protection practices, it has been found that the combination of EksPunge with Prudent fertilizers, NpHource 44 or ArmorTech 44 fertilizers aids in the protection of listed crops.

Notification of Possible Admixes

For practical purposes, EksPunge is rarely used alone; instead, EksPunge is generally part of a formulation or tank mix. Those formulations, as a rule, contain an inert support and/or an inert surfactant in addition to active material. These inert admixes are dictated by local and cultural practices. An inert support may be organic or mineral, natural or synthetic. These inert supports facilitate the application of EksPunge to the plant, to seeds or soil and aid in its transportation and handling. Inert surfactants include ionic or non-ionic emulsifiers, dispersants, wetting agents, fatty

acids or fatty amines. If desired, prepare EksPunge to include a penetration agent, adhesive, anti-lumping agent and/or colorant.

Other Possible Inert Additives May Include

- * A carbon skeleton component: Water-soluble carbohydrates such as sucrose, fructose, glucose and other mono-, di- and oligosaccharides are suitable.
- * A macronutrient component: The macronutrients are essential to nutrition and growth. The most important macronutrients are N, P and K. Nitrogen sources include: nitric acid salts, ammonium salts, urea, methylene ureas, amino acids, proteins and nucleic acids. Phosphate sources include salts of phosphorus acid. Potassium sources include potassium salts.
- * A micronutrient component: The most important micronutrients are salts of Zn, Fe, Cu, Mn, B, Co and Mo.
- * Complexing agents: The following inert materials serve as anti-precipitation agents: citric acid, fulvic acid, humic acid, EDTA, EDDA, EDDHA, HEDTA, LPCA, MEA, IDS and EDDS.
- * Seaweed or kelp extracts: Seaweed or kelp extracts as nutritional supplements.
- * Plant extracts.

Chemigation

Only apply this product through sprinkler (including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set or hand move) or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Refer to the *Mixing Directions* above when preparing the chemigation mixture. Apply EksPunge for the duration of the water application.

For Sprinkler Chemigation:

- The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

For Drip (Trickle) Chemigation:

- The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

EksPunge Guidelines for Nutritional Application		
Crop	Rate	Timing
Alfalfa	Foliar: 5-8 lbs./Acre per application. Apply after cuttings at a maximum concentration of 1.9 lbs./Acre only if label mixing directions are followed. Chemigation: Apply 40-50 lbs./Acre	Foliar: Apply at first regrowth – when alfalfa is 6-8" tall; apply after each cutting. Chemigation: Apply one week after every cut through irrigation.
Almonds	Foliar: Pre-bloom: 5-10 lbs./Acre; Finish: 5-15 lbs./Acre. Use a maximum of 1.5 lbs. of product per 10 gallons of spray solution by ground rig or a maximum of 4 lbs. of product per 10 gallons of spray solution by air.	Apply pre-bloom 1 week before to 1 week after peak bloom. Apply as a finish spray 1-2 times from 3 weeks to 10 days before harvest.
Apples	10-20 lbs./Acre per application. Use a maximum of 1.5 lbs. of product per 10 gallons of spray solution by ground rig or a maximum of 4 lbs. of product per 10 gallons of spray solution by air.	Mid-Season Sprays: Apply during June/July, up to 4 successive sprays, 7-10 days apart. Finish Spray: Apply at the color break period. Post-Harvest Spray: Immediately apply after harvest.
Avocado	25-40 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Apply 2-3 times from fruit set until 30 days before harvest every 30 days.
Banana	20-30 lbs./Acre per application. Use a maximum of 2 lbs. of product per 10 gallons of spray solution.	Apply 1-2 times – 15 and 21 days after shooting. Apply 1 time 21-30 days before bloom.
Beans: Dry, Succulent and Limas	5-8 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Apply at first flower. Apply 2 additional times during the main filling stage of pod development, 7-10 days apart.
Berries: Bush Type	5-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Make 2-4 foliar applications, at 14-21 day intervals, starting at first flower.
Citrus	20-25 lbs./Acre per application. Use a maximum of 4 lbs. of product per 10 gallons of spray solution.	Apply up to 3 times: Pre-bloom, late June (after June drop) and in early September.
Cool Season Turf Grass	2-4 ozs. per 1000 sq. ft. (6-11 lbs./Acre) per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution. Use higher rates in chemigation systems where EksPunge is the primary source of P and K.	Apply every 7-14 days throughout the season.

EksPunge Guidelines for Nutritional Application		
Crop	Rate	Timing
Corn (Sweet)	5-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Two applications: Apply 2 weeks prior to tasseling and again between tasseling and silking.
Cotton	5-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution by ground rig and a maximum of 10 lbs. of product per 10 gallons of spray solution by air.	Make applications at 30 (square development), 60 (first flowering) and 90 (boll set) days after emergence.
Deciduous Fruits: Apples, Pears, Cherries, Apricots, Peaches, Plums and Nectarines	5-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Apply as a pre-bloom and post-bloom spray.
Grapes	5-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Apply starting at the 1-2 inch (3-5 cm) shoot stage through veraison every 2-4 weeks.
Hops	5-10 lbs./Acre per application. Use sufficient water for complete coverage by ground sprayers. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Begin applications at early season training and continue through end of bloom period as often as every 7 days.
Legumes	5-8 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Apply at first flower with 2 additional applications during the mid-filling stage of pod development 7-10 days apart.
Lemons	8-10 lbs./Acre per application. Use a maximum of 4 lbs. of product per 10 gallons of spray solution.	Make 2 applications – 1 after fruit setting and the second 1 month later.
Mango	15-20 lbs./Acre per application. Use a maximum of 4 lbs. of product per 10 gallons of spray solution.	Apply up to 3 times after panicle development every 14 days.
Melons, Pumpkins and Cucurbits	8-12 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Apply 2-4 sprays beginning at fruit set on a 7-14 day interval.
Onion	8-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Make 2-4 applications beginning at transplanting. Repeat applications every 30 days.
Ornamentals	Use 1 lb. in 10 gallons of water and spray to wet. Transplants – Use 1-2 lbs. of product per 10 gallons and apply approximately 1/2 gallon per transplanted shrub/tree.	Apply at bloom, spring shoot push or shortly after transplant and repeat in 14-21 days. Use any time new growth is pushing or in conjunction with pesticide applications.
Peanuts	5-8 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Apply 3 times– first at early bloom with 2 additional sprays at 80 days after planting and then 10 days later.
Peppers and Tomatoes	5-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution.	Apply 2-6 sprays every 14 days starting at first bloom.
Potato	5-10 lbs./Acre per application. Use a maximum of 5 lbs. of product per 10 gallons of spray solution.	Apply at early initial tuber formation. Apply subsequent sprays with fungicide applications.

EksPunge Guidelines for Nutritional Application		
Crop	Rate	Timing
Produce, Lettuce and Cole Crops	2-4 lbs./Acre per application. Use a maximum of 1 lb. of product per 10 gallons of spray solution.	Use multiple low rate applications 10-14 days apart starting just after transplant. Use as a preharvest application from 3-14 days before harvest to improve color.
Rice	3-6 lbs./Acre per application. Use a maximum of 1 lb. of product per 10 gallons of spray solution by ground rig or a maximum of 5 lbs. of product per 10 gallons of spray solution by air.	Spray 2 times, first at the end of tillering and then at panicle initiation.
Root Crops	2-8 lbs./Acre per application. Use a maximum of 2 lbs. of product per 10 gallons of spray solution.	Apply at increasing rates every 14-21 days from early root swell until 2 weeks before harvest.
Small Grains	8-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution by ground rig or a maximum of 8 lbs. of product per 10 gallons of spray solution by air.	Apply at late anthesis stage.
Soybean	5-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution by ground rig or a maximum of 8 lbs. of product per 10 gallons of spray solution by air.	Apply 2 times – first at the early bloom stage and then at the main pod filling stage.
Strawberry	5-10 lbs./Acre per application. Use a maximum of 3 lbs. per 10 gallons of spray solution. Chemigation: Apply 5-10 lbs./Acre	Apply 2-4 times during the harvest period on a 7-14 day schedule. Apply as needed through chemigation.
Sugarbeet	5-10 lbs./Acre per application. Use a maximum of 3 lbs. of product per 10 gallons of spray solution by ground rig or a maximum of 8 lbs. of product per 10 gallons of spray solution by air.	Apply when leaves are 10" across and again 3-4 weeks later. Apply again 4 weeks before harvest.
Warm Season Turf Grass	2-4 ozs. per 1000 sq. ft. (6-11 lbs./Acre) per application. If used as a starter, apply 4-6 ozs. per 1000 sq. ft. (11-16 lbs./Acre). Use a maximum of 3 lbs. of product per 10 gallons of spray solution. Use higher rates in chemigation systems where EksPunge is the primary source of P and K.	Apply every 7-14 days throughout the season. Use as a starter fertilizer during transition periods to cool season grasses.

Blossom Thinning Aid for Peaches, Nectarines, Plums, Plouts and Prunes

Combine EksPunge with labeled rates of ENTRY, A Wilbur-Ellis Co. surfactant, during local flowering thinning practices. The end user must contact a Wilbur-Ellis Co. representative or a specialist in the Univ. of California Horticulture Department for specific rates, timing and use recommendations.

EksPunge Crop Protection Fungicide Application Guidelines

For each crop, see the following table for additional rates per water volume.

Crop Protection with EksPunge lbs./Acre											
Crop	Water Volume gal/Acre					Crop	Water Volume gal/Acre				
	50	100	150	200	250		50	100	150	200	250
Apples	8	8-16	17-20	21-32	33-40	Peppers	8	8-16	17-20	20	20
Cucurbits	10	10-20	17-20	20	20	Roses	5	6-8	9-10	10	10
Grapes	8	8-16	17-20	21-32	33-40	Stone Fruits	8	8-16	17-20	20	20
Leafy Vegetables	10	10-20	17-20	20	20	Tomatoes	8	8-16	17-20	20	20
Mangoes	8	8-16	17-20	21-32	33-40	Turfgrass	8-13	13-25	19-38	25-40	25-40
Ornamentals	8-13	13-16	19-38	25	40						

Apples

For control of powdery mildew (*Podosphaera leucotricha*) on Apples, use 8-40 lbs. of EksPunge per acre. Start spraying at tight cluster and continue spraying every 7-10 days until terminal shoots cease their vegetative growth. The rate of product per acre will vary depending upon the tree size (canopy development) and the volume of water.

Min: 8 lbs./50 gallons spray solution per acre.

Max: 40 lbs./250 gallons spray solution per acre.

DO NOT exceed 16 lbs. per 100 gallons of finished spray solution.

Cucurbits

(Cucumber, Melons, Squash and Watermelons)

For control of powdery mildew (*Sphaerotheca filiginea*) on the above listed cucurbits, use 10-20 lbs. of EksPunge per acre. Start spraying when plants begin to run or when disease pressure is anticipated. Repeat at 7-14 day intervals as needed. Under conditions of severe disease pressure, use the higher rate and apply at 7 day intervals. For best results, do not apply when temperatures are over 85°F and humidity is high. Shading is necessary for greenhouse use.

Min: 10 lbs./50 gallons spray solution per acre.

Max: 20 lbs./250 gallons spray solution per acre.

DO NOT exceed 20 lbs. per 100 gallons of finished spray solution.

Leafy Vegetables

(such as Lettuce, Cabbage, Greens, Spinach and Parsley)

For control of powdery mildew (*Erysiphe cichoracearum*) on the above listed leafy vegetables, use 10-20 lbs. of EksPunge per acre. Start spraying when plants begin to run or when disease pressure is anticipated. Repeat at 7-14 day intervals as needed. Under conditions of severe disease pressure, use the higher rate and apply at 7 day intervals. For best results, do not apply when temperatures are over 85°F and humidity is high. Shading is necessary for greenhouse use.

Min: 10 lbs./50 gallons spray solution per acre.

Max: 20 lbs./250 gallons spray solution per acre.

DO NOT exceed 20 lbs. per 100 gallons of finished spray solution.

Grapes

For control of powdery mildew (*Uncinula necator*) on grapes, use 8-40 lbs. of EksPunge per acre. Start spraying in the spring when shoots are 1-2 inches (3-5 cm) in length and when disease pressure is anticipated. Repeat every 10-14 days. When disease pressure is low, use low per acre rates early in the season. The per acre rate must be increased as disease pressure increases. For improved appearance on table grapes, use lower application rates.

Min: 8 lbs./50 gallons spray solution per acre.

Max: 40 lbs./250 gallons spray solution per acre.

DO NOT exceed 16 lbs. per 100 gallons of finished spray solution.

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Mangoes

For control of powdery mildew (*Oidium mangiferae*) on mango, use 8-40 lbs. of EksPunge per acre. Start spraying at first appearance of bloom panicles (approximately 2 inches long) and repeat at 7-14 day intervals until all fruit are set. If additional sprays are required, continue at 2-3 week intervals until shoot growth ceases – which should be about 6 sprays.

Min: 8 lbs./50 gallons spray solution per acre.

Max: 40 lbs./250 gallons spray solution per acre.

DO NOT exceed 16 lbs. per 100 gallons of finished spray solution.

Ornamentals

For control of powdery mildew, such as *Microsphaeri alni* and *Erysiphe cichoracearum* on woody and herbaceous ornamentals, use 8-40 lbs. of EksPunge per acre. Start spraying in early spring when conditions become favorable for disease development (i.e. cool, humid, cloudy periods) and continue spraying on a 7-14 day schedule for the entire season.

Min: 8 lbs./50 gallons spray solution per acre.

Max: 40 lbs./250 gallons spray solution per acre.

DO NOT exceed 16 lbs. per 100 gallons of finished spray solution.

Peppers

For control of powdery mildew (*Leveillula taurica*) on peppers: **Greenhouse Grown:** Mix 10 lbs. per 100 gallons and apply 1.5 gallons of finished spray per 1000 sq. ft. at 5-7 day intervals. Use shading to reduce temperatures during spraying. **Field Grown:** Use 8-20 lbs. of EksPunge per acre when disease pressure begins to increase. Repeat at 7-10 day intervals.

Min: 8 lbs./50 gallons spray solution per acre.

Max: 20 lbs./250 gallons spray solution per acre.

DO NOT exceed 16 lbs. per 100 gallons of finished spray solution.

Roses

For control of powdery mildew (*Sphaerotheca pannosa* var. *rosae*), use 5-10 lbs. EksPunge per acre. Apply at 5-7 day intervals as needed. Best performance will be achieved with full wetting of leaves without runoff.

Min: 5 lbs./50 gallons spray solution per acre.

Max: 10 lbs./250 gallons spray solution per acre.

DO NOT exceed 8 lbs. per 100 gallons of finished spray solution.

Stone Fruits

(Peaches, Nectarines, Plums and Cherries)

For control of powdery mildew (*Sphaerotheca pannosa* var. *persicae* and *Podosphaera oxycanthae*) on stone fruits as listed, use 8-20 lbs. of EksPunge per acre. Follow local recommendations for powdery mildew control timings or apply when disease pressure is anticipated and repeat every 7-14 days.

Min: 8 lbs./50 gallons spray solution per acre.

Max: 20 lbs./250 gallons spray solution per acre.

DO NOT exceed 16 lbs. per 100 gallons of finished spray solution.

Tomatoes

For control of powdery mildew (*Leveillula taurica*) on tomatoes: **Greenhouse Grown:** Use 10 lbs. per 100 gallons and apply 1.5 gallons of finished spray per 1000 sq. ft. at 5-7 day intervals. Use shading to reduce temperatures during spraying. **Field Grown:** Use 8-20 lbs. of EksPunge per acre when disease pressure begins to increase. Repeat at 7-10 day intervals.

Min: 8 lbs./50 gallons spray solution per acre.

Max: 20 lbs./250 gallons spray solution per acre.
DO NOT exceed 16 lbs. per 100 gallons of finished spray solution.

Turfgrass

For control of powdery mildew (*Erysiphe graminis D.C.*), use 8-40 lbs. of EksPunge per acre. Start spraying in early spring when conditions become favorable for disease development (i.e. cool, humid, cloudy periods) and continue spraying on a 7-14 day schedule for the entire season.

Min: 8 lbs./50 gallons spray solution per acre.

Max: 40 lbs./250 gallons spray solution per acre.

DO NOT exceed 25 lbs. per 100 gallons of finished spray solution.

Expanded Efficacy with Product Combinations

EksPunge in combination with labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44, all LidoChem, Inc. fertilizers, [or Prudent Plus, a NutrEcology, Inc. fertilizer,] is acceptable with local crop protection practices. The end user must contact a LidoChem, Inc. [or NutrEcology, Inc.] representative or specialist for specific rates, timing and use recommendations. It has been found that the combination of EksPunge and Prudent fertilizers, NpHource44 or ArmorTech44 [or Prudent Plus] fertilizers aids in the protection of the following crops:

Ornamentals and Bedding Plants

Use Prudent fertilizers, NpHource44 and ArmorTech 44 [or Prudent Plus] fertilizers combined with labeled rates of EksPunge on ornamentals and bedding plants grown in field nursery, greenhouse, landscaping and conifer nursery situations, for control of diseases caused by *Pythium* and *Phytophthora*.

Use Prudent fertilizers, NpHource44 and ArmorTech 44 [or Prudent Plus] fertilizers combined with labeled rates of EksPunge on ornamentals for control of downy mildew and fire blight and for the suppression of bacterial blight caused by certain pathovars of *Xanthomonas campestris*. Applications must be made prior to disease development and in conjunction with good cultural management practices. Use the higher rate when disease pressure is severe. Do not exceed recommended rates or apply more frequently than at specified intervals or plant injury will occur.

Ornamentals

Foliar applications to plants such as Agalonema, Aphelandra, Azalea, Bougainvillea, Boxwood, *Cattelya skinneri*, Cissus, Diefenbachia, Hibiscus, Juniper, Leather-leaf Fern, Pittosporum, Philodendron, Pothos, Rhodendron, Spathiphyllum and *Taxus medi*. Mix 8-11 pounds of EksPunge with labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44 [1 gallon of Prudent Plus] per 100 gallons of water and apply as necessary, but do not exceed one application every 7 days.

Drench applications to plants such as Aphelandra, Azalea, Boxwood, Cissus, Dieffenbachia, Japanese Holly, Juniper, Monterey Pine, Philodendron, Pieris, Pittosporum, Rhododendron, Schefflera, Spathiphyllum and *Taxus media*: Mix 8-11 pounds of EksPunge with labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44 [1 gallon of Prudent Plus] per 100 gallons of water and apply as necessary, but do not exceed one application every 7 days.

Bedding Plants

Foliar applications to plants such as Begonia, Pansy, Vinca, Marigold, Zinnia, Petunia, Geranium and Impatiens: Mix 11 pounds of EksPunge with labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44 [1 gallon of Prudent Plus] per 100 gallons of water and apply as necessary, but do not exceed one application every 7 days.

For Use on Conifers in Nurseries to Prevent Phytophthora Root Rot

Dip treatments to conifers such as Douglas firs, spruce and pines: Dip in a mix of 8-11 pounds of EksPunge with labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44 [1 gallon of Prudent Plus] per 100 gallons of water and apply as necessary, but do not exceed one application every 30 days. Immediately dip before

transplanting. When making dip applications, wear chemical/water resistant gloves, goggles or face shield, long pants (coveralls), long-sleeved shirt, shoes and socks.

Foliar applications to conifers such as Douglas firs, spruce and pines: Mix 8-11 pounds of EksPunge with labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44 [1 gallon of Prudent Plus] per 100 gallons of water and apply as necessary, but do not exceed one application every 30 days. For injection applications, contact a LidoChem, Inc. representative.

Downy Mildew Control in Roses

Foliar applications to roses (field, container, landscape and mini varieties) to control Downy mildew (*Peronospora sparsa*): Applications must be made in conjunction with a disease sanitation program to reduce the spread of the disease to uninfected plants. Mix 8-11 pounds of EksPunge with labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44 [1 gallon of Prudent Plus] per 100 gallons of water and apply as necessary, but do not exceed one application every 7 days.

Fire Blight Suppression

Foliar applications to plants such as ornamental pear, pyracantha and hawthorne: Applications must be made in conjunction with a strict sanitation program to reduce the spread of the disease to uninfected plants. Mix 8-11 pounds of EksPunge labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44 [1 gallon of Prudent Plus] per 100 gallons of water and apply as necessary. EksPunge and Prudent fertilizers, NpHource44 and ArmorTech 44 [Prudent Plus] fertilizer[s] work solely as a preventative treatment. Begin spray treatments at prebloom stage and continue at 7 day intervals until bloom period ends. Do not exceed one application every 7 days. For injection applications, contact a LidoChem, Inc. representative.

Bacterial Blight Suppression

Foliar applications to plants, such as English ivy, schefflera, anthurium, dieffenbachia, spathphyllum, syngonium and ficus, for the suppression of the *Xanthomonas campestris* pathovars *hederae*, *differnbachiae*, *syngonii* and *fici*. Applications must be made in conjunction with a disease sanitation program to reduce the spread of the disease to uninfected plants. Mix 8-11 pounds of EksPunge with labeled rates of Prudent fertilizers, NpHource44 and ArmorTech 44 [1 gallon of Prudent Plus] per 100 gallons of water and apply as necessary, but do not exceed one application every 7 days. Refer to compatibility statements concerning use of coppers or other compounds.

Crop	Disease Name	Pathogen
Grape Vine	Downy Mildew	<i>Plasmopara viticola</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>
Peach	Bacterial Diseases	<i>Xanthomonas pruni</i> , <i>Pseudomonas syringae</i>
	Verticillium Wilt	<i>Verticillium albo-atrum</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>
	Crown Canker	<i>Phytophthora sp.</i>
Almond	Bacterial Diseases	<i>Pseudomonas syringae</i>
Apricot	Bacterial Diseases	<i>Pseudomonas syringae</i>
Cherry	Bacterial Diseases	<i>Xanthomonase pruni</i> , <i>Pseudomonas syringae</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>
Apple	Gray Mold Rots	<i>Botrytis cinerea</i>
	Crown Rot	<i>Phytophthora cactorum</i>
Plums	Bacterial Diseases	<i>Xanthomonase pruni</i>
Walnut	Bacterial Diseases	<i>Xanthomonase campetstris pv. juglandis</i>
Pear	Powdery Mildew	<i>Podosphaera leucotricha</i> , <i>P. oxycanthae</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>

Crop	Disease Name	Pathogen
	Bacterial Diseases	<i>Pseudomonas syringae</i>
	Collar Rot	<i>Phytophthora cactorum</i>
Strawberry	Powdery Mildew	<i>Sphaerotheca macularis</i>
	Fruit Rots	<i>Rhizoctonia solani</i>
	Red Stele	<i>Phytophthora fragariae</i>
	Verticillium Wilt	<i>Verticillium albo-atrum</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>
Citrus	Brown Rot	<i>Phytophthora citrophthora</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>
Tomato	Late Blight	<i>Phytophthora infestans</i>
	Leaf Mold Diseases	<i>Cladosporium fulvum</i>
	Root Rot	<i>Thielaviopsis basicola</i>
	Damping-Off of Seedlings	<i>Pythium sp., Rhizoctonia solani</i>
	Fusarium Wilt	<i>Fusarium oxysporum var. lycopersici</i>
Eggplant, Pepper	Downy Mildew	<i>Peronospora tabacina</i>
	Damping-Off of Seedlings	<i>Pythium ultimum, P. debarysanum</i>
	Verticillium Wilt	<i>Verticillium sp., Rhizoctonia solani</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>
	Fusarium Wilt	<i>Fusarium annuum</i>
Potato	Powdery Mildew	<i>Erysiphe cichoracearum, Oidium sp.</i>
	Fusarium Wilt	<i>Fusarium oxysporum</i>
	Verticillium Wilt	<i>Verticillium sp., Rhizoctonia solani</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>
	Late Blight	<i>Phytophthora infestans</i>
Melon, Cucumber, Zucchini	Downy Mildew	<i>Pseudoperonospora cubensis</i>
	Fusarium Wilt	<i>Fusarium oxysporum f sp. cucurbitae</i>
	Gray Mold Rots	<i>Botrytis cinerea</i>
	Damping-Off of Seedlings	<i>Pythium sp., Rhizoctonia solani</i>
Artichoke	Downy Mildew	<i>Plasmopara halstedii</i>
	Powdery Mildew	<i>Erysiphe cichoracearum</i>
Lettuce, Endive, Chicory	Powdery Mildew	<i>Erysiphe cichoracearum</i>
	Damping-Off of Seedlings	<i>Pythium sp.</i>
	Bottom Rot	<i>Rhizoctonia solani</i>
	Downy Mildew	<i>Bremia lactucae</i>
Turf	Pythium Root Rot	<i>Pythium aphanidermatum</i>
	Pythium Blight	<i>Pythium ultimum</i>
Roses	Downy Mildew	<i>Peronospora sparsa</i>

Storage and Disposal

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

Pesticide Storage: Store product in original container away from children and domestic animals. **Pesticide**

Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, send remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry). **Container Disposal {Pager Bags}:** Non-refillable container; do not reuse or refill this container. Completely empty bag contents into application equipment by shaking and tapping sides and bottom to loosen clinging particles; then offer for recycling, if available, or dispose of empty bag in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

[Container Disposal (Plastic Containers): Non-refillable container; do not reuse or refill this container. Promptly

triple rinse (or equivalent) container after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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; then offer for recycling, if available, or dispose of empty container in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

{Per PR Notice 2007-4 the batch code/lot number will appear on the label or container.}

Warranty and Disclaimer

1. Seller warrants that this product consists of the ingredients specified and is reasonably fit for the purpose stated on this label when used in accordance with directions under normal conditions of use. No one, other than the officer of Seller, is authorized to make any warranty, guarantee or direction concerning this product.
2. To the extent permitted by applicable law, the seller's liability for handling, storage and use of this product contrary to label instructions shall be limited to replacement of product or refund of purchaser price.

Distributed and Guaranteed by:



LidoChem, Inc.

20 Village Court
Hazlet, NJ 07730

Phone 732-888-8000 Fax 732-264-2751

[Product of Israel]

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Manufactured and Packaged for LidoChem, Inc.

{Marketing Claims}

**Fungicide, Plant Nutrient & Tank Buffering Agent
Crop Protection with EksPunge**

For the Control of Powdery Mildew on Apples, Cucurbits (Cucumbers, Melons, Squash and Watermelons), Grapes, Leafy Vegetables, Mangoes, Peppers, Roses, Stone Fruits (Cherries, Nectarines, Peaches and Plums) and Tomatoes

For the Control of Powdery Mildew on Ornamentals and Turfgrass

{End of Marketing Claims}

[] Denotes alternate/optional language
{ } Denotes language that does not appear on the market labeling
(ABN: Nutrol)