



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

34704-1154

Date of Issuance:

7/20/20

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

LPI.A008

Name and Address of Registrant (include ZIP Code):

Robert Avalos
Manager of Registrations
Loveland Products, Inc.
P.O. Box 1286
Greeley, CO 80632-1286

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Continued on page 2

Signature of Approving Official:

Mindy Ondish, Product Manager 23
Herbicide Branch, Registration Division (7505P)

Date:

7/20/20

2. You are required to comply with the data requirements described in the DCI identified below:
 - a. Imazethapyr GDCI-128922-1549

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Submit one copy of the final printed label for the record before you release the product for shipment.

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 FIFRA 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.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The alternate brand name "Arterio Assist" has been added for this product

Please also note that the record for this product currently contains the following CSF:

- Basic CSF dated 02/25/2020

If you have any questions, please contact Grant Rowland by phone at 703-347-0254, or via email at rowland.grant@epa.gov.

Enclosure

[Note to reviewer: [Text] in brackets denotes optional or explanatory language]
 [Note to reviewer: {Text} in braces denotes where in the final label text will appear]
**{BOOKLET FRONT PANEL
 LANGUAGE}**

Sulfentrazone	GROUP	14	HERBICIDE
Imazethapyr	GROUP	2	HERBICIDE

LPI.A008TM
[Alternate Brand Name: Arterio Assist]

For Use by Individuals/Firms Certified As Licensed Pesticide
 Applicators

Active Ingredient:	(% by weight)
Sulfentrazone.....	33.33%
Imazethapyr.....	6.67%
Other Ingredients:	60.00%
Total	100.0%

Contains 4 of active ingredient per gallon: 3.33 pounds sulfentrazone and 0.67 pounds imazethapyr.

KEEP OUT OF REACH OF CHILDREN
CAUTION

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

See inside label booklet for First Aid, Precautionary Statements and Directions for Use.

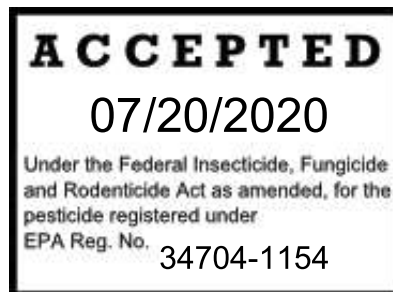
EPA Reg. No.: 34704-1154

EPA Est. No.:

Net Weight:

[Label ID Print Code]

**MANUFACTURED FOR:
 LOVELAND PRODUCTS, INC.
 P.O. BOX 1286
 GREELEY, COLORADO 80632-1286**



{LANGUAGE INSIDE BOOKLET}

FIRST AID	
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the 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.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
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 by mouth-to-mouth, if possible.• Call a poison control center or doctor for further 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 going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

**For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

**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 spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves.

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

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove 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.

ENVIRONMENTAL HAZARDS:

This pesticide is toxic to marine/estuarine invertebrates. 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 terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

Non-Target Organism Advisory Statement: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

Surface Water Advisory Statement: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of imazethapyr from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Groundwater Advisory Statement: Sulfentrazone and Imazethapyr are known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Do not use on coarse soils classified as sand which have less than 1% organic matter.

Physical/Chemical Hazards:

Do not use or store near open flame. Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

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 12 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 over short-sleeve shirt and long pants,
- Chemical-resistant gloves,
- Shoes plus socks.

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, consult the State or Tribal agency responsible for pesticide regulation.

PRODUCT INFORMATION

LPI.A008 is a soluble concentrate formulation. **LPI.A008** is to be mixed with water, liquid fertilizer, or mixtures of water and liquid fertilizer and sprayed for selective preemergence or preplant incorporated weed control. When applied according to the instructions on this label, **LPI.A008** will control listed broadleaf and sedge weeds and provide grass suppression.

The mode of action of **LPI.A008** herbicide involves uptake by weed roots and shoots. Preemergence and preplant incorporated applications of **LPI.A008** herbicide require rainfall or irrigation to activate the herbicide. The amount of rainfall or irrigation required for activation following application depends on existing soil moisture, organic matter content and soil texture. **LPI.A008** must be activated by 0.5 to 1.0 inch of rainfall or irrigation water or erratic weed control will result. If adequate moisture (1/2" to 1") is not received within 7 to 10 days after the **LPI.A008** treatment, a shallow cultivation may be needed to aid in activation to obtain desired weed control. When sufficient moisture is received after dry conditions, **LPI.A008** herbicide will provide control of susceptible germinating weeds. Soil applications of **LPI.A008** must be made before crop seed germination to prevent injury to the emerging crop seedlings. When applications after planting are delayed, injury may occur if seeds are germinating or if they are located near the soil surface (cracking).

LPI.A008 herbicide exhibits excellent crop safety. Poor growing conditions, such as excessive moisture, cool temperatures, and soil compaction or the presence of various pathogens may impact seedling vigor. Under these conditions, the active ingredients in **LPI.A008**, like other soil-applied herbicides, can contribute to crop response. However, these early symptoms are short-lived.

It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Observe the most restrictive of all instructions, crop restrictions, mixing directions, application precautions, replanting directions, rotational crop guidelines and other label information of each product when tank mixing with **LPI.A008**.

Proper Handling Instructions:

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Do not apply this product through any type of irrigation system. Do not use flood irrigation to apply or incorporate this product.

This product must be used in a manner which will prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

CROP ROTATIONAL INTERVALS

Shown below are the minimum intervals in months from the time of **LPI.A008** application until **LPI.A008** treated soil may be replanted with the crops listed. When **LPI.A008** is tank mixed with other herbicide(s), refer to all those labels for re-cropping instructions, following the intervals that are the most restrictive. For crops not listed, the interval is 30 months in addition to a successful field bioassay.

CROP ROTATION INTERVALS

CROP	INTERVAL (Months)
Alfalfa	12
Barley	9 1/2
Cabbage	40 (18 for the states of AL, DE, FL, GA, IN, KY, MD, NJ, NC, PA, SC, VA)
Canola, Crambe	40 with bioassay**
Chickpeas	10
Corn, field	10, 4***
Corn, seed	10
Corn, pop	18, 10 ²
Corn, Sweet	18, 10 ²
Cotton	18

Dry Beans	Anytime
Dry Peas	Anytime
Flax	26
Lettuce	18
Lima Beans	4
Oats	18
Pease	10
Potatoes	26
Rice	40
Rye	4 (18 for the states of MN, ND North of Hwy #210)
Safflower	18
Snap Beans	10
Sorghum	18
Soybeans	Anytime
Sugar Beets	40 with bioassay**
Sunflowers	18
Sweet Potatoes	26 (18 for the states of AL, DE, FL, GA, IN, KY, MD, NJ, NC, PA, SC, VA)
Tobacco	9 ½
Wheat	4

** The field bioassay is a test strip of the intended crop planted across the previously treated field and grown to maturity. The test strip should include low spots, knolls, and soil variations such as pH and type. If injury does not occur in the test strip the crop may be planted the following year.

*** IR, Clearfield, and IMR corn hybrids may be planted after 4 months where **LPI.A008** was applied at 6 ounces or less.

¹ Hybrid Corn Seed Production, Growers are directed to contact the seed company for information and recommendations regarding the planting of corn grown for seed in field treated with **LPI.A008** the previous year. To the extent consistent with applicable law Loveland Products, Inc. will not accept responsibility for any crop injury on field corn grown for seed following an application of **LPI.A008**.

² Sweet corn (Processed only) and popcorn may be planted after 10 months where **LPI.A008** was applied at 6 oz/A or less.

REPLANTING INSTRUCTIONS:

If the initial planting of soybeans fails to produce a uniform stand, soybeans may be replanted in fields treated with **LPI.A008** alone. When tank mixing with a labeled product, refer to the replant instructions for that product.

Do not replant treated fields with any crop at intervals that are inconsistent with the CROP ROTATION INTERVALS on the **LPI.A008** label. Where a tank mix is used, refer to the product's labels for any additional replant instructions.

MIXING AND LOADING INSTRUCTIONS:

LPI.A008 Applied Alone

Select the proper labeled application rate of **LPI.A008** from the appropriate crop section. Fill the spray tank with approximately one-half of the volume of water needed for the acreage being treated. With agitator operating, add the required amount of **LPI.A008** for acreage being treated. Allow the product to fully disperse. Complete the addition of spray water. Maintain agitation during filling, mixing and application. Apply the **LPI.A008** spray mixture immediately after mixing.

LPI.A008 Applied in Tank Mix Combination

Select the proper labeled application rate of **LPI.A008** from the appropriate crop section. Read and follow all applicable use directions, precautions and restrictions on the respective tank mix product labels. To ensure

product compatibility, conduct a jar test before large volume mixing. Provided the jar test indicates the mixture is compatible, prepare the tank mixture as follows.

Fill the spray tank with approximately one-half of the volume of water needed for the acreage being treated. With agitator operating, add the required amount of **LPI.A008** for the acreage being treated by opening the bottle(s) and measuring directly into the spray tank. Allow the product to fully disperse. Next, add the amount(s) of the additional tank mix product(s) in the following order: first dry formulations (e.g., wettable powders, dry flowables), next liquid suspensions (e.g., flowables) and finally liquids (e.g., EC's). Allow time for complete mixing and dispersion after each addition, adding water as necessary. Complete the addition of spray water. Maintain agitation during filling, mixing and application. Use **LPI.A008** tank mixtures immediately after mixing.

Fertilizer Spray Mixtures

Applications of **LPI.A008** alone, or with recommended tank mixtures, in conjunction with fertilizer solutions may be used unless use directions specifically state otherwise. Small quantities should be tested for compatibility by the following procedure before mixing in full spray tank quantities.

- 1) Add 1 pint of fertilizer solution in a quart jar.
- 2) Add the appropriate amount of herbicide based on the table below. If more than one product is to be used, add each separately using the following sequence: dry formulations (e.g., wettable powders, dry flowables) first, liquid suspensions (e.g., flowables) next and finally liquids (e.g., EC's).

MIXTURE COMPATIBILITY TESTING

Herbicide Type	Herbicide Field Use Rate	Amount Herbicide Added Per Pint
Wettable Powder or Dry Flowable	0.5 pounds	0.75 teaspoons
	1.0 pounds	1.5 teaspoons
	2.0 pounds	3.0 teaspoons
	3.0 pounds	4.5 teaspoons
Emulsifiable Concentrates	1.0 Pint	0.5 teaspoons
Liquid Flowables	1.0 Quarts	1.0 teaspoons
	2.0 Quarts	2.0 teaspoons
	3.0 Quarts	3.0 teaspoons

*Based on a spray volume of 25 gal. per acre. For lower or higher spray volumes, adjust fluid fertilizer quantity accordingly.

- 3) Close jar and shake well.
- 4) Watch mixture for several seconds, again after 5 minutes and again after 30 minutes. If herbicide/fertilizer combination remains mixed or can be remixed readily (i.e., does not permanently separate, foam, gel or become lumpy), the mixture is compatible and can be mixed in full volumes and sprayed. If the mixture is compatible, prepare spray by adding fertilizer solution to the tank first, then follow directions noted below.

LPI.A008 Applied Alone with Liquid Fertilizer

When adding **LPI.A008** to a liquid fertilizer carrier, **LPI.A008** should be premixed in clear water. Fill the spray tank one-half full with fertilizer solution. With agitator operating, add the **LPI.A008** slurry to the spray tank. Use a minimum of one gallon of water for each container of **LPI.A008**. Stir until completely dissolved. Then add slurry to the spray tank through a 20-35 mesh screen. Rinse container used for pre-mixing and add rinsate to the spray tank. Complete filling the sprayer tank with fertilizer. Maintain agitation during filling, mixing and application. Use **LPI.A008** spray mixture immediately after mixing.

LPI.A008 Applied in Tank Mix Combinations

Fill the spray tank one-half full with fertilizer solution. With the agitator operating, add a premix of **LPI.A008** as described in the preceding paragraph. Next, dilute the individual tank mix partners with sufficient water to form a free flowing mixture; then add to the spray tank of fertilizer. While maintaining agitation, add the other products using the following order: slurry of dry formulations (wetable powders, dry flowables) first, diluted liquid

formulations (EC's, flowables) second. Complete filling the sprayer tank with fertilizer. Maintain agitation during filling, mixing and application. Use **LPI.A008** tank mixtures immediately after mixing.

APPLICATION INFORMATION:

SPRAY DRIFT MANAGEMENT

Aerial Applications:

- Aerial application is only allowed when the field is too wet to safely apply pesticides using ground equipment.
- When this product is allowed to be applied by air, applicators must use a minimum finished spray volume of 5 gallons per acre.
- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For applications prior to the emergence of crops and target weeds, applicators are required to select nozzles and application pressure that delivers a Coarse or coarser droplet size (ASABE S572).
- For all other applications, applicators are required to select nozzles and application pressure that delivers a Medium or coarser droplet size (ASABE S572).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Applicators may spray only when wind speed is between 3 and 10 mph.
- Do not apply during temperature inversions.

Ground Boom Applications:

- Ground applicators must use a minimum finished spray volume of 10 gallons per acre.
- When sulfentrazone is tank mixed with a contact burndown herbicide, ground applicators must use a minimum spray volume of 15 gallons per acre.
- The maximum release height is 30 inches from the soil.
- For applications prior to the emergence of crops and target weeds, applicators are required to select nozzles and application pressure that delivers a Coarse or coarser droplet size (ASABE S572).
- For all other applications, applicators are required to select nozzles and application pressure that delivers a Medium or coarser droplet size (ASABE S572).
- Applicators may spray only when wind speed is between 3 and 10 mph.
- Do not apply during temperature inversions.

Boom-less Ground Applications:

- Applicators are required to use a medium or coarser droplet size (ASABE S572) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

Boom-less Ground Applications:

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications:

- Take precautions to minimize spray drift.

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control.

While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aerially to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

WEED RESISTANCE MANAGEMENT

For resistance management, **LPI.A008** is a Group 14 and Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **LPI.A008** and other Group 14 and Group 2 herbicides. Weed species with acquired resistance to Group 14 and Group 2 herbicides may eventually dominate the weed population if Group 14 and Group 2 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by **LPI.A008** or other Group 14 or Group 2 herbicides. Users should scout before and after application.

Suspected herbicide-resistant weeds may be identified by these indicators:

1. Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
2. A spreading patch of non-controlled plants of a particular weed species; and
3. Surviving plants mixed with controlled individuals of the same species.

To delay herbicide resistance:

- Avoid the consecutive use of **LPI.A008** or other target site of action Group 14 and Group 2 herbicides that might have a similar target site of action, on the same weed species.
- Use tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern (an herbicide mode of action classification by itself may not adequately address specific weeds that are resistant to specific herbicides)
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.
- Report any incidence of non-performance of this product against a particular weed species to your Loveland Products, Inc. retailer, representative or call **1-888-574-2878**. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

PREVENTING RUNOFF AND WIND EROSION:

- Do not apply under conditions which favor runoff or wind erosion of soil containing **LPI.A008** to non-target areas.
- To prevent off-site movement due to runoff or wind erosion:
 - Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, allow the soil surface to be settled by rainfall or irrigation.
 - Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow-covered ground.
 - Do not apply to soils when saturated with water.
 - Do not use tail water from the first flood or furrow irrigation of treated fields to treat non target crops unless at least 1 /2 inch of rainfall has occurred between application and the first irrigation.

SPRAY EQUIPMENT CLEANOUT:

After spraying **LPI.A008** and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure.

1. Drain sprayer tank, hoses, and spray boom and thoroughly rinse the inside of the sprayer tank with clean water to remove sediment and residues. Thoroughly flush sprayer hoses, boom and nozzles with clean water.
2. Fill the tank 1/2 full with clean water, and add appropriate tank mix cleaner or ammonia (follow manufacturer's directions for use). Fill the tank to capacity and operate the sprayer for 15 minutes to flush hoses, boom, and nozzles.
3. Convenient and thorough cleaning of the sprayer can be achieved if the cleaning solution is left in the spray tank, hoses, spray booms and spray nozzles overnight or during storage.
4. Before using the sprayer, drain the spray system. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray tips and screens separately with the tank mix cleaner or ammonia solution.

- Properly dispose of all cleaning solution and rinsate in accordance with Federal, State and local regulations and guidelines.

Do not drain or flush equipment on or near desirable trees or plants.

Do not contaminate any body of water including irrigation water that may be used on other crops.

Should small quantities of **LPI.A008** remain in inadequately cleaned mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing effects to certain crops and other vegetation. Loveland Products, Inc. accepts no liability for any effects due to inadequately cleaned equipment.

WEEDS CONTROLLED

When used as directed, **LPI.A008** will provide control or suppression of the following broadleaf weeds and grasses.

Common Name	Scientific Name
Broadleaves	
Amaranth, Palmer	<i>Amaranthus, Palmer</i>
Amaranth spiny	<i>Amaranthus, spinosus</i>
Amaranth spleen	<i>Amaranthus dubius</i>
Anoda spurred	<i>Anoda cristata</i>
Beggarweed, Florida	<i>Desmodium tortuosum</i>
Carpetweed	<i>Mullugo verticillata</i>
Catchweed Bedstraw	<i>Galium aparine</i>
Cocklebur common ¹	<i>Xanthium Pensylvanicum</i>
Copperleaf, Hophornbeam	<i>Acalypha ostryeafolia</i>
Copperleaf Virginia	<i>Acalypha virginica</i>
Daisy, American	<i>Eclipta alba</i>
Eclipta	<i>Eclipta prostrata</i>
Galinsoga, hairy	<i>Galinsoga ciliata</i>
Golden Crownbeard	<i>Verbesina encelioides</i>
Groundcherry clammy (seedling)	<i>Physalis heterophylla</i>
Groundcherry cutleaf	<i>Physalis angulata</i>
Jimsonweed	<i>Datura stramonium</i>
Kochia	<i>Kochia scoparia</i>
Ladysthumb	<i>Polygonum persicaria</i>
Lambsquarters common	<i>Chenopodium album</i>
Marshelder	<i>Iva xanthifolia</i>
Morningglory, entireleaf	<i>Ipomea hederacea integriusc</i>
Morningglory, ivyleaf	<i>Ipomea hederacea hederacea</i>
Morningglory, palmleaf	<i>Ipomea Wrightii</i>
Morningglory, pitted	<i>Ipomea lacunose</i>
Morningglory, purple	<i>Ipomea turbinata</i>
Morningglory, red	<i>Ipomea coccinea</i>
Morningglory, scarlet	<i>Ipomea hederifolia</i>
Morningglory, smallflower	<i>Jacquemontia tamnifolia</i>
Morningglory, tall	<i>Ipomea purpurea</i>
Mustard, black	<i>Brassica nigra</i>
Mustard Tumble	<i>Sisymbrium altissimum</i>
Mustard, wild	<i>Brassica kaber</i>
Nightshade, black	<i>Solanum nigrum</i>
Nightshade, Eastern black	<i>Solanum americanum</i>
Nightshade hairy	<i>Solanum sarrachoides</i>

Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed smooth	<i>Amaranthus hybridus</i>
Poinsettia, wild	<i>Euphorbia heterophylla</i>
Poorjoe	<i>Diodia teres</i>
Purslane, common	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scabra</i>
Redmaids, Rockpurslane	<i>Calandrinia ciliate</i>
Redstem Filaree	<i>Erodium cicutarium</i>
Redweed	<i>Melochia corchorifolia</i>
Senna, coffee	<i>Cassia occidentalis</i>
Shepherdspurse	<i>Capsella bursa pastoris</i>
Sida, prickly (Teaweed)	<i>Sida spinose</i>
Sida, southern	<i>Sida acuta</i>
Smartweed, PA	<i>Polygonum pennsylvanicum</i>
Spurge, prostrate	<i>Euphorbia humistrata</i>
Spurge, spotted	<i>Euphorbia maculate</i>
Starbur, bristly	<i>Acanthospermum hispidum</i>
Thistle, Russian	<i>Salsola kali</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Venice Mallow	<i>Hibiscus trionium</i>
Waterhemp, common	<i>Amaranthus rudis</i>
Waterhemp, tall	<i>Amaranthus tuberculatos</i>
Wild Buckwheat	<i>Polygonum convolvulus</i>

Common Name	Scientific Name
Grasses (suppression only)	
Tank mixing with grass soil applied herbicides, postemergence grass herbicides, or mechanical cultivation will be required for complete grass control	
Foxtail bristly	<i>Setaria verticillata</i>
Foxtail giant	<i>Setaria faberi</i>
Foxtail green	<i>Setaria viridis</i>
Foxtail yellow	<i>Setaria lutescens</i>
Johnsongrass seedling ¹	<i>Sorghum halapense</i>
Shattercane	<i>Sorghum bicolor</i>
Fall Panicum ¹	<i>Panicum dichotomiflorum</i>

Common Name	Scientific Name
Sedges	
Nutsedge purple	<i>Cyperus rotundus</i>
Nutsedge yellow	<i>Cyperus esculentus</i>
Sedge, annual	<i>Cares spp.</i>

¹ Will not control ALS resistant biotypes of these weed species

SOYBEANS

TIMING AND METHOD OF APPLICATION:

LPI.A008 can be applied from 45 days prior to planting up to 3 days after planting. Do not apply if soybean seedlings are emerging (cracking) or no more than 3 days after planting as plant injury may occur. When applying **LPI.A008** greater than 30 days pre-plant, use the highest application rate within the rate range for the appropriate soil texture and organic matter. **LPI.A008** may be applied preemergence or preplant incorporated. **LPI.A008** may

be followed by labeled postemergence soybean herbicides for increased control of grass and broad leaf weeds. Always follow the most restrictive label when tank mixing.

LPI.A008 may be applied alone or in tank mixture combinations for the control of the weeds listed in conventional or GMO soybean varieties.

Table 1:
LPI.A008 USE RATES - For All Soybeans

LPI.A008 Use Rate Table			
Spring Preplant, Preemergence and PPI Applications			
% Organic Matter*	Fluid ounces LPI.A008 per acre		
	Soil Texture		
	Coarse*	Medium	Fine
>1.0 – 2.0	6.0 – 8.0	8.0 – 10.0	10.0 – 12.0
2.0 – 4.0+	8.0 – 10.0	10.0 – 12.0	12.0
Refer to the following chart for information on soil type under the COARSE, MEDIUM, and FINE categories. Use higher rates for soils of pH less than 7.0 and the lowest rate for pH greater than 7.0 within the rate range. * Do not use on coarse soils classified as sand, which have less than 1 % organic matter.			

SOIL CLASSIFICATION CHART

COARSE SOILS	MEDIUM SOILS	FINE SOILS
Sand	Sandy clay loam	Silty clay loam
Loamy sand	Sandy clay	Silty clay
Sandy loam	Loam	Clay loam
	Silt loam	Clay
	Silt	

Spring Preplant Applications:

For applications of **LPI.A008** greater than 30 days preplant use the highest application rate for the appropriate soil texture and organic matter.

Preemergence Applications:

LPI.A008 may be applied at planting time or within 3 days after planting, but before seed germination. **LPI.A008** may be applied alone or in tank mix combinations with other registered soybean herbicides. When applied in tank mix combinations, follow applicable use directions, including application rates, precautions and restrictions of each product in the mixture. Properly closed seed furrows are necessary before applications.

Preplant Incorporated Applications:

LPI.A008 may be applied alone or in tank mix combinations with other herbicides registered for PPI application on soybeans. For preplant incorporated applications, incorporation must be uniform and no deeper than 2 inches. Improper soil incorporation may result in erratic weed control and/or crop injury. When **LPI.A008** is applied in tank mix combination with other soybean herbicides, follow the incorporation directions for the tank mix partner(s). Follow applicable use instructions of each product used in the tank mixture.

Fall Applications:

LPI.A008 may be applied as a fall treatment to the stubble of harvested crops for the burndown of existing vegetation and preemergence control of labeled weeds the following spring in no-till and conservation tillage production systems. If weeds are emerged at the time of application, utilize a tank mixture with a suitable burndown herbicide at labeled rates. Fall applied burndown treatments should be made with a minimum of 15 gallons per acre to achieve adequate coverage of the weeds being treated. Gallonage should be increased where weed density is high or heavy crop residue levels are present. When making burndown applications to emerged

weeds, the addition of adjuvants such as COC or MSO to the spray mixture can be used to enhance the burndown activity of the application. If weeds are present at time of **LPI.A008** application apply with appropriate burndown herbicides for improved control of existing weeds. Refer to product labels for use rates and instructions. For **LPI.A008** application rates refer to either table (Table 1).

Reduced Rates for GMO Soybeans (glyphosate and/or glufosinate-resistant varieties):

LPI.A008 may be used at reduced rates in conjunction with planned follow-up weed control applications with glyphosate and glufosinate based herbicide products labeled for use on the appropriate GMO soybean varieties. Follow all **LPI.A008** application directions.

Apply before planting, at planting time or prior to seed germination. Properly closed seed furrows are necessary when applying at planting time or before seed germination. Recommended postemergence treatments may include any product or combination of products labeled for such use.

**Table 2:
REDUCED RATE APPLICATIONS**

LPI.A008 Use Rate Table for Reduced Rates Fall, Preplant, and Preemergence Applications			
Broadcast Rate	Fluid ounces LPI.A008 per acre		
	Soil Texture		
% Organic Matter*	Coarse*	Medium	Fine
<1.0 – 2.0	4.0	4.0 – 5.0	5.0 – 6.0
2.0 – 4.0+	4.0 – 5.0	5.0 – 6.0	6.0
Refer to the following chart for information on soil type under the COARSE, MEDIUM, and FINE categories. Use higher rates for soils of pH less than 7.0 and the lowest rate for pH greater than 7.0 within the rate range. * Do not use on coarse soils classified as sand, which have less than 1 % organic matter.			

Preplant Weed Suppression for GMO Soybeans (glyphosate and/or glufosinate-resistant varieties):

Apply **LPI.A008** alone or in a tank mixture with other registered, soil applied soybean herbicides, to reduce competition from weeds when followed by a planned postemergence application(s). Apply before planting, at plant or within 3 days after planting. Properly closed seed furrow is necessary to avoid potential crop response when applying at plant or after planting. Recommended postemergence treatments include any product or combination of products labeled to control specific weeds remaining in the field, including any glyphosate or glufosinate based herbicide labeled for use on soybean varieties. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. For applications greater than 30 days preplant use the higher application rate for the appropriate soil texture and organic matter. For herbicide tolerant or resistant weed species, use the highest labeled rate allowed of **LPI.A008** according to soil type, pH, and organic matter parameters.

Note: **LPI.A008** is not for use after crop has emerged.

Precautions:

Properly closed seed furrows are necessary when applying at planting time of before seed germination. The use directions are based on the interactive effects of **LPI.A008** and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and recommendations presented under General Application Information, Soybean Application use directions, Product Use Rates, Rotational Guidelines, Weeds Controlled and other sections of this label pertinent to the anticipated use. It is important to note that not all cultivars have been tested with **LPI.A008**. Consult University or Extension specialists for additional information on specific local varieties and any other pertinent local

information.

Restrictions:

- Do not apply this product through any type of irrigation system.
- Do not apply more than 12.0 fluid ounces (0.375 pounds active ingredient) of **LPI.A008** per acre per 12 (twelve) month period. This period is considered to begin with the initial sulfentrazone application.
- Do not apply to frozen soils.
- Do not feed treated soybean forage, soybean hay or soybean straw to livestock.
- Do not apply **LPI.A008** to soils classified as sand containing less than 1% organic matter.
- Do not drain or flush equipment on or near desirable trees or plants. Do not contaminate any body of water including irrigation water that may be used on other crops.
- Do not incorporate deeper than 2 inches.

If soybeans are furrow irrigated, till the soil prior to planting winter wheat or barley. The beds should be broken up and the soil mixed with tillage equipment set to operate four (4) to six (6) inches deep.

DRY SHELLED BEANS AND PEAS

Navy, great northern, red kidney, black turtle, cranberry, pinto, lima, and small white type dry beans, adzuki, lentils, white lupins, chickpeas (garbanzo beans), dry edible peas, English and southern peas.

For use in the states east of and including: ND, SD, WY, CO, and NM (except the states east of and including VT, MA, and CT).

LPI.A008 can be used on dry edible peas, lentils, chickpeas, and lima beans in ID, MT, NV, OR, UT, and WA.

LPI.A008 can be used on chickpeas in AZ.

Table 3

LPI.A008 Use Rate (Dry Shelled Beans and Peas)

Fall or Spring Early Preplant, Preemergence, and Preplant Incorporated Applications

Broadcast Rate	Fluid ounces LPI.A008 per acre		
% Organic Matter	Soil Texture		
	Coarse	Medium	Fine
<1.5%	2.75 – 3.6	3.6 – 5.4	3.6 – 5.4
1.5 – 3%	3.6 – 5.4	4.5 – 6.0	6.0
>3%	4.5 – 6.0	6.0	6.0

Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories
Use higher rates for soils of pH less than 7.0 and the lowest rate for pH greater than 7.0 within the rate range.

Early Preplant and Fall Applications:

LPI.A008 may be applied in the fall as a preplant treatment to control or suppress weeds prior to planting the following spring. **LPI.A008** should be applied to the stubble or soil surface and allow moisture from rainfall or snow to move the product into the soil. Do not mechanically incorporate in the fall or spring as this can destroy the herbicide barrier and weed escapes can occur. Do not apply to frozen soils or to existing snow cover to prevent **LPI.A008** runoff from rain or snow melt that may occur following application. **LPI.A008** may be tank mixed with other residual soil herbicides that are labeled for fall use on dry bean and dry peas. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. If weeds are emerged at the time of **LPI.A008** application, use a burndown herbicide such as glyphosate or paraquat at the full-labeled rate in combination with **LPI.A008** or split application as needed. Select the appropriate rate from

Table 3 above within the correct soil type and organic matter range. When applying **LPI.A008** in the fall, use a mid to high rate within the rate range for the appropriate soil type and organic matter.

Early Preplant and Preemergence (Spring Applications):

LPI.A008 may be applied preplant on the soil surface in the spring to control weeds in dry bean and dry peas. **LPI.A008** can be applied early preplant prior to planting up to 3 days after planting as a preemergence soil application if seedlings have not broken the soil surface and if the seed furrow is completely closed. **LPI.A008** can be tank mixed with other preemergence herbicides labeled for dry bean and dry peas use. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. If dry conditions persist following preemergence application of **LPI.A008**, a shallow incorporation may be needed to incorporate and activate the herbicide. If weeds are emerged at the time of **LPI.A008** application, use a burndown herbicide at the full-labeled rate in combination with **LPI.A008** or sequential application as needed.

Preplant Incorporated (PPI):

LPI.A008 may be applied as a Preplant Incorporated treatment in the spring prior to planting in reduced and conventional tillage dry bean and dry pea. Do not incorporate to depths greater than 2 inches. **LPI.A008** use rates for PPI applications are similar to those used in preplant and preemergence applications. **LPI.A008** can be tank mixed with other soil-applied herbicides labeled for use in dry bean or dry pea. Do not tank mix **LPI.A008** with other PPO chemistry herbicides. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Observe all precautions, instructions, and rotational cropping guidelines of each product's label when tank mixing, including all references to potential carryover and crop injury warnings or restrictions.

Weeds Controlled:

When applied according to directions, **LPI.A008** will provide control of:

- Kochia (ALS and Triazine Resistant)
- Lambsquarters common
- Nightshade, Eastern black
- Pigweed red root
- Pigweed smooth

Precautions:

When applying **LPI.A008** to coarse textured soils, it is recommended that growers allow a minimum of 7-14 days from application to planting to reduce the risk of crop response.

LPI.A008 must be activated by 0.5 to 1.0 inch of rainfall or irrigation water or erratic weed control will result. If adequate moisture (1/2" to 1") is not received within 7 to 10 days after the **LPI.A008** treatment, a shallow cultivation may be needed to aid in activation to obtain desired weed control. When sufficient moisture is received after dry conditions, **LPI.A008** herbicide will provide control of susceptible germinating weeds. Under extended periods of dry weather, adequate weed control may not be achieved.

Some adverse crop response may occur on coarse textured soils with low organic matter (less than 1.5%) and pH of 7.0 or higher, or on highly eroded soils, hilltops, or in areas of calcareous outcroppings. **LPI.A008** use rates should be reduced to 2.75 oz/A in those areas, or do not use. Inadequate seed furrow closure or shallow planting (less than 1.0 inch) may result in undesirable crop response. As expected, poor growing conditions such as excessive moisture, low temperatures, soil compaction and diseases may also cause undesirable crop response. These Crop Specific Use directions are based upon the interactive effects of **LPI.A008** and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under General Application Instructions,

General **LPI.A008** Product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use (Section 12). It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with **LPI.A008**. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on **LPI.A008** under specific local conditions.

Restrictions:

- Do not apply more than 6.0 fluid ounces (0.188 lb a.i.) total per twelve-month period. The twelve-month period is considered to begin upon the initial **LPI.A008** application.
- Do not apply more than one application per year.
- Do not apply after crop emerges, or if the seedling is close to the soil surface.
- Do not incorporate to depths greater than 2 inches.
- Do not apply to frozen soils or to existing snow cover to prevent **LPI.A008** runoff from rain or snow melt that may occur following application.
- Do not use on soils classified as sand, which have less than 1 % organic matter.

PEANUTS

Southeastern United States Only (AL, AR, GA, LA, MS, NC, SC, TN, VA)

Apply **LPI.A008** alone or in combination with other registered herbicides for the control of key grass and broadleaf weeds in peanut production. Refer to the information below for specific use directions. **LPI.A008** is registered for use on peanuts only in the following states: AL, AR, GA, LA, MS, NC, SC, TN and VA.

Application Instructions:

LPI.A008 may be preplant incorporated (to a depth no greater than 2 inches) up to 14 days prior to planting. Incorporation of **LPI.A008** deeper than 2 inches can result in adverse crop response and/or inconsistent weed control. Alternatively, **LPI.A008** may be applied to the soil surface early preplant, at planting, or within 3 days after planting. Properly closed seed furrows are required when applying at planting time or before seed germination. When planting into soil treated preplant with **LPI.A008**, minimize soil disturbance to maintain the herbicide barrier on the soil surface to achieve maximum weed control. Do not use **LPI.A008** for "at-crack" type applications or apply to expose peanut tissue. Such use can result in significant adverse crop response. **LPI.A008** is active against many broadleaf and grass weed species. For optimum performance, a combination of **LPI.A008** plus a grass herbicide labeled for peanuts is recommended when heavy grass pressure is anticipated. Under conditions of exceptionally high weed populations or when weeds not controlled by **LPI.A008** are anticipated, the use of suitable post-emergent peanut herbicides is recommended. Broadcast apply the correct **LPI.A008** use rate from Table 4 below in a minimum of 10 gallons of water per acre of finished spray. Banded **LPI.A008** application rates must be adjusted in proportion to the broadcast rate. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Table 4

LPI.A008 Use Rate (Peanut)

Early Preplant, Preemergence, and Preplant Incorporated Applications

Broadcast Rate	Fluid ounces LPI.A008 per acre		
	Soil Texture		
	Coarse	Medium	Fine
<1.5%	2.8 – 3.5	3.5 – 5.5	3.5 – 5.5
1.5 – 3%	3.5 – 5.5	4.5 – 7.3	5.5 – 7.3
>3%	4.5 – 7.3	5.5 – 7.3	6.0 – 9.5

Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories. Use higher rates for soils of pH less than 7.0 and the lowest rate for pH greater than 7.0 within the rate range.

Precautions:

LPI.A008 is especially effective against a wide range of economic broadleaf and grass weeds. The same processes that **LPI.A008** affects in these weeds can, under certain conditions, be affected in peanuts. These conditions include high pH (7.0 and above), cool weather, prolonged and excessive moisture, seedling diseases, and any other condition, including poor agronomic practices, that are unfavorable to vigorous crop growth. Such effects in peanuts are often observed as stunting and discoloration. The duration of these effects are somewhat dependent on the duration of the adverse growing conditions. These effects lessen and generally diminish with a return to normal growing conditions. Thorough coverage is essential for postemergence control of small susceptible broadleaf weeds. If thorough coverage is not achieved, postemergence weed control will be poor.

When used as directed, **LPI.A008** will provide preemergence control of the following weeds (refer to section 23 for postemergence weeds controlled):

BROADLEAVES	
Amaranth, Palmer	<i>Amaranthus palmeri</i>
Amaranth, spiny	<i>Amaranthus, spinosus</i>
Amaranth, spleen	<i>Amaranthus dubius</i>
Anoda, spurred	<i>Anoda cristata</i>
Cocklebur, common	<i>Xanthium strumarium</i>
Copperleaf, hophornbeam	<i>Acalypha ostryifolia</i>
Morningglory, Entireleaf	<i>Ipomea hederacea integrisc</i>
Morningglory, Ivyleaf	<i>Ipomea hederacea hederacea</i>
Morningglory, Palmleaf	<i>Ipomea Wrightii</i>
Morningglory, purple	<i>Ipomea turbinata</i>
Morningglory, red	<i>Ipomea coccinea</i>
Morningglory, scarlet	<i>Ipomea hederifolia</i>
Morningglory, tall	<i>Ipomea, purpurea</i>
Nightshade, black	<i>Solanum nigrum</i>
Nightshade, Eastern black	<i>Solanum americanum</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed, smooth	<i>Amaranthus hybridus</i>
Purslane, common	<i>Portulaca oleracea</i>
Side, prickly	<i>Sida spinosa</i>
Smartweed, PA (seedling)	<i>Polygonum pennsylvanicum</i>
Spurges, Prostrate	<i>Euphorbia humistrata</i>
Spurges, Spotted	<i>Euphorbia maculata</i>
Waterhemp, common	<i>Amaranthus rudis</i>
Waterhemp, tall	<i>Amaranthus tuberculatos</i>
GRASSES	
Crabgrass, large	<i>Digitaria sanguinalis</i>
Crabgrass, small	
Crabgrass, southern	<i>Digitaria ciliaris</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Goosegrass	<i>Eleusine indica</i>
Signalgrass, broadleaf	
Panicum, fall	<i>Panicum dichotomiflorum</i>
Panicum, Texas	<i>Panicum maximum</i>
SEDGES	
Nutsedge, purple	<i>Cyperus rotundus</i>

Nutsedge, yellow	<i>Cyperus esculentus</i>
Sedge, annual	<i>Cares</i> spp.

Restrictions

- Do not apply **LPI.A008** after crop emergence, at cracking, or if the seedling is close to the soil surface, as undesirable crop response may occur.
- Do not apply more than 9.5 fluid ounces per acre of **LPI.A008** per twelve-month period. The twelve-month period is considered to begin upon the initial **LPI.A008** application.
- Do not use on soils classified as sand, which have less than 1% organic matter.
- Do not apply to frozen soils or existing snow cover to prevent **LPI.A008** runoff from rain or snowmelt that may occur following application.
- Do not apply after crop seed germination. Do not irrigate when peanuts are cracking.

STORAGE AND DISPOSAL

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

Pesticide storage - Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool dry place and avoid excess heat. Do not store below 32°F degrees.

In Case of Spill - Avoid contact. Isolate areas and keep out animals and unprotected persons.

To Confine Spills - Dike surrounding area, sweep up spillage, Dispose of in accordance with information given under Pesticide Disposal. Wash spill area with water, absorb with sand, cat litter or commercial clay, sweep up and dispose of in an approved manner. Place damaged container in a large holding container. Identify contents per required hazardous waste labeling regulations.

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 of the nearest EPA Regional Office for guidance.

Container Handling

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows:

Nonrefillable Container ≤ 5 gallons: 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.

Nonrefillable Container > 5: gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Containers - Refill this container with pesticide 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 into application equipment or mix tank. Fill the container about 10% 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 help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. To the extent consistent with applicable law, the buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS

WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

[LPI.A008] is a trademark of Loveland Products, Inc.

{LANGUAGE ON LABEL AFFIXED TO CONTAINER}

LPI.A008™

Active Ingredient:	(% by weight)
Sulfentrazone*	33.33%
Metribuzin**	6.67%
Other Ingredients	60.00%
Total	100.0%

Contains 4 of active ingredient per gallon: 3.33 pounds sulfentrazone and 0.67 pounds imazethapyr.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

FIRST AID	
If swallowed	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.
If on skin or clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
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 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 going for treatment.	
For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.	

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 spray mist.

ENVIRONMENTAL HAZARDS:

This pesticide is toxic to marine/estuarine invertebrates. 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 terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate

STORAGE AND DISPOSAL

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

Pesticide storage - Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool dry place and avoid excess heat. Do not store below 32°F degrees.

In Case of Spill - Avoid contact. Isolate areas and keep out animals and unprotected persons.

To Confine Spills - Dike surrounding area, sweep up spillage, Dispose of in accordance with information given under Pesticide Disposal. Wash spill area with water, absorb with sand, cat litter or commercial clay, sweep up and dispose of in an approved manner. Place damaged container in a large holding container. Identify contents per required hazardous waste labeling regulations.

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 of the nearest EPA Regional Office for guidance.

Container Handling

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: **Nonrefillable Container ≤ 5 gallons:** 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.

Nonrefillable Container > 5 gallons: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Containers - Refill this container with pesticide 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 into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into

See inside label booklet for additional Precautionary Statements and Directions for Use.

EPA Reg. No. 34704-1154
EPA Est. No.
Net Weight:
[Label ID Print Code]

MANUFACTURED FOR:
LOVELAND PRODUCTS, INC.
P.O. BOX 1286
GREELEY, COLORADO 80632-1286