

IMAZOSULFURON	GROUP 2	HERBICIDE
THIOBENCARB	GROUP 8	HERBICIDE



# LEAGUE MVP<sup>®</sup>

## HERBICIDE

**FOR THE CONTROL OF CERTAIN GRASSES,  
SEDGES AND BROADLEAF WEEDS IN RICE**

Active Ingredient	By Wt
<sup>1</sup> Imazosulfuron	0.43%
<sup>2</sup> Thiobencarb	10.00%
Other Ingredients	89.57%
Total	100.00%
<sup>1</sup> 2-chloro-N-[[[4,6-dimethoxy-2-pyrimidinyl)-amino] carbonyl]imidazo[1,2-a]pyridine-3-sulfonamide	
<sup>2</sup> S-[(4-chlorophenyl)methyl]diethylcarbamothioate	

EPA Reg. No. 59639-189  
EPA Est. 39578-TX-1

**For Use in California Only**  
**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
**SEE NEXT PAGE FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS.**

**NET CONTENTS 50 POUNDS**

### FIRST AID

- If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
- If on skin or clothing:** 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 swallowed:** 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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

### 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 800-892-0099 for emergency medical treatment information.

### NOTE TO PHYSICIAN

Thiobencarb is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Harmful if inhaled, absorbed through skin or swallowed. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Applicators and other handlers must wear:** protective eyewear, long-sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate or Butyl Rubber  $\geq 14$  mils or Nitrile Rubber  $\geq 14$  mils or Viton  $\geq 14$  mils, chemical-resistant apron when loading formulation into equipment or cleaning equipment and socks plus shoes.

**All workers must wear:** waterproof boots plus socks when entering flooded fields following treatment.

#### USER SAFETY REQUIREMENTS

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

### USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE 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 product is toxic to fish and shrimp. Do not apply directly to water except as directed on this label, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**This product is to be used in California Central Valley only. Not for use in other parts of California within the range of listed Pacific salmonids.**

### ENDANGERED SPECIES

The National Marine Fisheries Service has determined that thiobencarb, when used in California according to the label and existing restricted materials permit conditions, is not likely to jeopardize the continued existence of endangered or threatened salmonid species, nor is it likely to destroy or adversely modify designated critical habitat of these species. To ensure and continue the proper use of thiobencarb on rice in California, you must follow the measures contained in the Endangered Species Protection Bulletin for the county in which you are applying the product. To obtain Bulletins, no more than six months before using this product, consult <http://www.epa.gov/espp/> or call 1-844-447-3813. You must use the Bulletin valid for the month in which you will apply the product. The use limitations in the Bulletins and linked Mandatory Pesticide Use Limitations document are adapted from those currently in force for thiobencarb under the restricted materials permit conditions of the California Department of Pesticide Regulation, with enforcement by the County Agricultural Commissioners.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

Do not apply this product in a way that will contact workers or other persons, either directly or indirectly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### 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

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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 entry within 12 hours after application 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, chemical-resistant gloves and waterproof boots plus socks.

#### **DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY**

**IMPORTANT:** Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

#### **RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND AGREES THAT TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

To the extent consistent with applicable law, Valent shall not be responsible for losses or damages (including, but not limited to,

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loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. To the extent consistent with applicable law, Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

#### **LIMITED WARRANTY**

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND EXCEPT AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

#### **LIMITATION OF LIABILITY**

To the extent consistent with applicable law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

#### **PROMPT NOTICE OF CLAIM**

To the extent consistent with applicable law allowing such requirements Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

#### **NO AMENDMENTS**

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

## TANK MIX

NOTICE: Combination or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent consistent with applicable law.

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.

### Weed Resistance Management

For resistance management, please note that *League MVP* Herbicide contains both a Group 2/imazosulfuron and a Group 8/thiobencarb herbicide. Any weed population may contain plants naturally resistant to Group 2 and/or Group 8 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies must be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of *League MVP* Herbicide or other Group 2 and Group 8 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (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; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

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- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes, or to find out if suspected resistant weeds have been found in their region.
- For further information or to report lack of performance or suspected resistance, contact Valent U.S.A. LLC at 800-682-5368.

### PRODUCT INFORMATION

- *League MVP* Herbicide provides preemergence and early post-emergence weed control of certain grasses, sedges and broad-leaf weeds in rice.
- For optimum results make an application prior to the emergence of susceptible weeds. Emerged weeds are best controlled if the weeds are completely submerged.
- *League MVP* Herbicide is used as an integral part of a weed control program and must be used in conjunction with a resistance management strategy.
- *League MVP* Herbicide will prevent the emergence of susceptible weeds if application is made to a clean well-prepared seedbed.
- Fields with a history of weed resistance to ALS and/or lipid synthesis inhibitors may exhibit resistance to *League MVP* Herbicide.

### RESTRICTIONS

- Do **NOT** make more than one application of *League MVP* Herbicide per acre per year.
- Do **NOT** apply more than 35 lb *League MVP* Herbicide per acre per application.
- Do **NOT** apply more than 35 lb *League MVP* Herbicide per acre per year.
- Do **NOT** apply to rice paddies where commercial catfish or crayfish farming will be practiced.
- Do **NOT** use on rice fields adjacent to catfish or crayfish ponds.
- Water drained directly from treated fields must not be used to irrigate other crops.
- Do **NOT** apply this product within 24 hours of rainfall, or when heavy rain is expected to occur within 24 hours.
- Do **NOT** mix/load or otherwise handle this product within 100 feet of aquatic habitat.
- Do **NOT** apply *League MVP* Herbicide to a crop that has received or will receive a soil-applied organophosphate insecticide.
- Do **NOT** apply *League MVP* Herbicide within 21 days before, or 7 days after, a foliar organophosphate insecticide application.
- Do **NOT** apply more than 3.5 lb ai/A of thiobencarb per year. Do not apply more than 0.15 lb ai/A of imazosulfuron per year.
- Do **NOT** exceed labeled rates of *League MVP* Herbicide. Accurately calibrate application equipment.
- Do **NOT** use *League MVP* Herbicide on water-seeded rice grown in fields which have been land leveled resulting in severe cuts and heavily filled areas (does not apply to normal maintenance leveling) in the past 18 months. Fields with a "loose" seedbed may also exhibit severe injury.

- Do **NOT** use *League MVP* Herbicide on rice grown in fields which have received chicken litter or had large amounts of green vegetative residue incorporated in the past 10 months.
- Do **NOT** use *League MVP* Herbicide on rice fields which cannot be drained as necessary due to water holding restrictions, if phytotoxic symptoms occur.
- Do **NOT** apply *League MVP* Herbicide to stressed crops or weeds. Stress conditions include, but are not limited to, soil moisture above field capacity, drought, temperatures below or above those known to be conducive for healthy growth, low fertility, carryover from a previous pesticide application or conditions/factors that decrease plant metabolism.

### ROTATIONAL RESTRICTIONS

Crop injury may result if the specified intervals are not followed. Extend the rotational interval by 6 to 8 months if either drought conditions and/or extended periods of cool conditions occur after application. These conditions and/or failure to use conventional tillage and cultivation cultural practices increases the persistence of *League MVP* Herbicide in the soil and therefore increases the potential for rotational crop injury and yield reduction.

CROP ROTATION	
Rotational Interval	Rotational Crop
Immediately	Rice
6 months	Tomato (transplanted)
8 months	Cantaloupe, Cotton, Cucumber, Eggplant, Lettuce, Mustard Greens, Peppers (Bell and Non-Bell), Radish, Spinach, Turnip, Turnip Greens, White Potato
9 months	Cabbage, Squash
12 months	Field Corn, Sweet Corn, Grain Sorghum, Soybean, Wheat
24 months <sup>1</sup>	All crops not listed

<sup>1</sup>A successful soil bioassay must be performed prior to planting any crops not listed sooner than 24 months after a *League MVP* Herbicide application. A successful bioassay is one in which a representative soil sample is taken from the field in question and the crop to be planted into that field is safely grown in that soil.

### INSTRUCTIONS FOR USE IN RICE

#### Weeds Controlled/Suppressed by *League MVP* Herbicide

COMMON NAME	SCIENTIFIC NAME	RATE OF LEAGUE MVP HERBICIDE
Broadleaf and Aquatic Weeds		30 to 35 lb/A Weeds beyond the one-leaf growth stage may not be controlled. Use the higher rate when weed pressure is high or when the weed growth stage is near the upper application limit. Use the lower rate when weed pressure is lower and weeds are smaller in size. Weeds must be submerged for optimum control.
Controlled		
Burhead	<i>Echinodorus cordifolius</i>	
Ducksalad	<i>Heteranthera limosa</i>	
Naiads	<i>Najas</i> spp.	
Pondweed, American	<i>Potamogeton nodosus</i>	Do not apply more than 35 lb <i>League MVP</i> Herbicide per acre per year.
Redstem	<i>Ammannia</i> spp.	
Grasses and Sedges		
Controlled		
Barnyardgrass	<i>Echinochloa crus-galli</i>	
Bulrush, Ricefield	<i>Scirpus mucronatus</i>	
Early Watergrass	<i>Echinochloa oryzoides</i>	
Smallflower Umbrellaplant	<i>Cyperus difformis</i>	
Sprangletop	<i>Leptochloa</i> spp.	
Waterhyssops	<i>Bacopa</i> spp.	
Suppressed		
Late Watergrass	<i>Echinochloa phyllopogon</i>	

### APPLICATION INSTRUCTIONS

Apply after flooding when rice is in the expanded two-leaf stage (first open leaf). Do not apply if rice is exhibiting symptoms of stress. The variety Cal Pearl may react adversely to some stress conditions more than other varieties.

Cold weather during the planting season may result in decreased weed control due to prolonged period of weed seed germination.

A minimum water-hold period is required after application (see Water Management Instructions).

#### Aerial Application Restrictions

- Fixed wing aircraft only.
- Release height must be 20 to 30 ft.
- Wind speed cannot exceed 7 mph.

## WATER MANAGEMENT INSTRUCTIONS

Do not drain *League MVP* Herbicide treated fields for a minimum of 30 days after application, except where the County Agricultural Commissioner may allow shorter water holding periods for hydrologically isolated fields, or for fields associated with systems designed to isolate discharged water from natural bodies of water. Examples of such systems include tail-water recovery systems for single or multiple fields, and use of fallow land for ponding discharge water. Contact the County Agricultural Commissioner for further information on acceptable water management practices.

Maintain water level in the checks at 3 to 4 inches with no exposed soil. Maintain water flow at a minimum during and up to four days after application for best weed control.

## RECOMMENDED MANAGEMENT PRACTICES POST-FLOOD WATER-SEEDED USES OF *LEAGUE MVP* HERBICIDE

*League MVP* Herbicide use in rice fields which develop anaerobic (low oxygen content) soil conditions following planting may reduce plant stand and yield. Anaerobic soil conditions are likely to occur when: (1) green matter and crop residue is plowed or worked into the soil prior to planting, (2) internal soil drainage is slow (poor percolation), (3) there is a continuous flood, and/or (4) there are areas in the field which retain water during periods of prescribed flood removal. Symptoms of anaerobic conditions include: (1) dark green foliage, (2) reduced plant height, (3) plant deformation.

Management practices which will help to minimize the development of anaerobic soil conditions and thereby promote good soil conditions for the production of healthy rice treated with *League MVP* Herbicide are:

- Removal of previous crop and weed residues, or
- Destruction of previous crop and weed residues by:
  - burning (where state regulations allow)
  - fall and winter plowing
  - use of chemical “burndown” (glyphosate or paraquat) to prevent vegetation buildup after initial ground preparation (fall and winter plowing) and prior to final seedbed preparation.
- Application of fertilizer based on soil test results – do not apply excess phosphorus.
- Uniform leveling practices which eliminate low spots in the field and ensure that the field can be entirely drained, if necessary. (This is far more difficult to achieve with the use of contour levees. Fields which have been precision leveled for perimeter ditches or straight levees are more suited to rapid removal of flood water.)
- Maintain uniform flood depth of 3 to 4 inches.

### Precaution

Water-seeded rice fields treated with *League MVP* Herbicide (post-flood) must be inspected regularly through the stand establishment and tillering stages. If phytotoxic symptoms (see above) occur, immediately drain the field (if recirculating systems or water impoundment allows or the field is hydrologically isolated) for 7 to 14 days or until the soil starts to crack to allow the soil to oxygenate; then reflood. Low spots which do not

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drain completely may continue to display phytotoxic symptoms. Use of *League MVP* Herbicide on rice fields which cannot be drained as necessary due to California water holding restrictions, may result in phytotoxic symptoms and is **done at the sole risk of the user.**

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry, secure place. Protect from excessive heat. Do not store or transport near feed or food. Not for use or storage in or around the home. For help with any spill, leak, fire or exposure involving this material, call day or night: 800-892-0099.

### PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER HANDLING

Nonrefillable bag. Do not reuse or refill the bag. Completely empty the bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into equipment. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration.

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Manufactured for

**Valent U.S.A. LLC**

P.O. Box 5075

San Ramon CA 94583

Made in U.S.A.

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Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status or call 800-6-VALENT (682-5368).



For state registration and/or supplemental labels, please call or visit us online.

*Products That Work, From People Who Care*®  
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**Always read and follow label instructions.**

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