



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

July 29, 2025

Christina Swick  
Regulatory Consultant  
Albaugh, LLC  
c/o Lewis & Harrison, LLC  
2461 South Clark Street, Suite 710  
Arlington, VA 22202

Subject: Registration Review Label Amendments Incorporating Mitigation from the National Marine Fisheries Services (NMFS) Biological Opinions on the Effects of Methomyl and Amendment – updating company information; adding agricultural pests; and other label improvements  
Product Name: Rotam Methomyl 29LV Insecticide  
EPA Registration Number: 83100-27  
Application Date: April 26, 2024  
Decision Number: 597020  
Case Number: 00648793

Dear Christina Swick:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application of the above referenced product in connection with the NMFS Biological Opinion (BiOp) on the effects of methomyl on federally listed endangered and threatened species and designated critical habitat in accordance with section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 et seq.). The Agency has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable. The Agency also completed review of your label amendment referred to above (Amendment – updating company information; adding agricultural pests; and other label improvements), submitted in connection with registration under FIFRA, as amended, and has determined the label is also acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the 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 Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

The U.S. Fish and Wildlife Service's (FWS) finalized their BiOp on the effects of EPA's national registration of methomyl on December 30, 2024, and EPA posted it on the [website](#) on January 16, 2025. The Agency plans to incorporate and implement this FWS BiOp when issuing the interim decision for methomyl. EPA will notify the registrants of any need to submit label amendments within 60 days of the issuance of the interim decision.

If you have any questions about this letter, please contact Rachel Blatnick at [blatnick.rachel@epa.gov](mailto:blatnick.rachel@epa.gov).

Sincerely,

A handwritten signature in dark ink, appearing to read "Kevin Costello", is written over a light blue horizontal line.

Kevin Costello, Branch Chief  
Risk Management and Implementation Branch 2  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

Enclosure

## RESTRICTED USE PESTICIDE

Due to high Acute Toxicity to Humans

For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator's Certification. Direct supervision for this product requires the Certified Applicator to review federal and supplemental label instructions with all personnel prior to application, mixing, loading, repair or cleaning of application equipment.

METHOMYL

GROUP

1A

INSECTICIDE

# Rotam Methomyl 29LV Insecticide

### Water Soluble Liquid

Contains 2.4 lbs. active ingredient per gallon

#### Active Ingredient:

Methomyl (S-methyl-N-[(methylcarbamoyl) oxy]thioacetimidate).....29%

Other Ingredients: .....71%

Total: .....100%

Contains Methanol

By Weight

KEEP OUT OF REACH OF CHILDREN

DANGER POISON



PELIGRO

ACCEPTED

Jul 29, 2025

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 83100-27

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

#### (N-Methyl Carbamate insecticide)

**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 by mouth-to-mouth, if possible. Call a poison control center or doctor for further 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 to an unconscious person.

**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.

**ATROPINE IS AN ANTIDOTE - SEEK MEDICAL ATTENTION AT ONCE IN ALL CASES OF SUSPECTED POISONING.**

If poisoning symptoms appear (see POISONING SYMPTOMS), get medical attention.

**POISONING SYMPTOMS** - Methomyl poisoning produces effects associated with anticholinesterase activity which may include weakness, blurred vision, headache, nausea, abdominal cramps, discomfort in the chest, constriction of pupils, sweating, slow pulse, muscle tremors. If poisoning symptoms appear, refer to First Aid section and seek medical attention at once.

#### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

**TREATMENT-** Atropine sulfate should be used for treatment. Administer repeated doses, 1.2 to 2.0 mg intravenously every 10 to 30 minutes until full atropinization is achieved. Maintain atropinization until the patient recovers. Artificial respiration or oxygen may be necessary. Allow no further exposure to any cholinesterase inhibitor until recovery is assured.

Do not use 2-PAM for exposure to ROTAM METHOMYL 29LV INSECTICIDE alone. However, for exposure to combinations of ROTAM METHOMYL 29LV and organophosphorous insecticides, 2-PAM may be used as required to supplement the atropine sulfate treatment. Do not use morphine.

**HOTLINE NUMBER:** For non-emergency questions regarding exposure to this product, call 1-888-347-6732 (7 days/week, 24-hr/day). For medical emergencies, call the poison control center at 1-800-222-1222. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

[See [inside] booklet for [additional] [complete] [Precautionary Statements,] [Directions For Use,] [Storage and Disposal,] [and] [Conditions of Sale and Warranty].]

For 24-hour chemical spill, leak, fire, exposure or accident response information, call CHEMTREC toll free at 1-800-424-9300.

EPA Reg. No.: 83100-27

Manufactured [For] [by]:

Albaugh, LLC

1525 NE 36th Street

Ankeny, IA 50021

EPA Est. No.:

Net Contents:

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS**  
**AND DOMESTIC ANIMALS**  
**KEEP OUT OF REACH OF CHILDREN**  
**DANGER POISON**



**PELIGRO**

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.)

Restricted Use Pesticide due to toxicity categories. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Contains Methanol. Methanol may cause blindness. Corrosive. Causes irreversible eye damage. May be fatal if swallowed or if inhaled. Harmful if absorbed through skin. Do not get in eyes or on clothing. Do not breathe spray mist. Avoid contact with skin.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators, cleaners, repairers of application equipment, and others exposed to the concentrate must wear:**

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as natural rubber or other materials in EPA category C.
- Socks and chemical resistant footwear.
- Protective eyewear.
- Chemical resistant apron.
- Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination R or P filters; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters.

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

**ENGINEERING CONTROL STATEMENTS**

**Human flaggers must be in enclosed cabs.**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR Part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

The enclosed cabs must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

**Pilots must not assist in the mixing and loading operations.**

**USER SAFETY RECOMMENDATIONS****USERS SHOULD:**

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

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates, and mammals. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean highwater mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. This chemical is 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.

This chemical can contaminate surface water through spray drift. Under some conditions, it may also have a high potential for runoff into surface water for several days to weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlaying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas overlaying tile drainage systems that drain to surface water.

**PHYSICAL AND CHEMICAL HAZARDS**

Combustible. Do not use or store near heat or open flame. Keep container closed. Use with adequate ventilation. The product shows potential explosive properties when heated to elevated temperatures.

**DIRECTIONS FOR USE****Restricted Use Pesticide**

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 agency responsible for pesticide regulation.

**Endangered and Threatened Species Protection Requirements**

**ENDANGERED AND THREATENED SPECIES PROTECTION REQUIREMENTS:** Before using this product, you must obtain any applicable Endangered Species Protection Bulletins ('Bulletins') within six months prior to or on the day of application. To obtain Bulletins, go to Bulletins Live! Two (BLT) at <https://www.epa.gov/pesticides/bulletins>. When using this product, you must follow all directions and restrictions contained in any applicable Bulletin(s) for the area where you are applying the product, including any restrictions on application timing if applicable. It is a violation of Federal law to use this product in a manner inconsistent with its labeling, including this labeling instruction to follow all directions and restrictions contained in any applicable Bulletin(s). For general questions or technical help, call 1-844-447-3813, or email [ESPP@epa.gov](mailto:ESPP@epa.gov).

**Reporting Ecological Incidents**

**REPORTING ECOLOGICAL INCIDENTS:** For guidance on reporting ecological incidents, including death, injury, or harm to plants and animals, including bees and other non-target insects, see EPA's Pesticide Incident Reporting website: <https://www.epa.gov/pesticide-incidents> or call 1-800-247-8013.

**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). REI Summary: REI peaches = 4 day; REI apple, cotton, grapefruit, lemon, nectarine, orange, tangelo, tangerine = 3 day; all other WPS uses = 48 hour REI.

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
- Chemical-resistant gloves, such as barrier laminate or butyl rubber
- Shoes plus socks
- Protective eyewear

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

## RESTRICTIONS

- Do not formulate this product into other end-use products.
- ROTAM METHOMYL 29LV INSECTICIDE is a water soluble liquid that is applied by foliar application to control many important insect pests. ROTAM METHOMYL 29LV INSECTICIDE is mixed with water for application.
- Chemigation: Refer to the crop specific sections of this label for use directions for chemigation. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in this product label.
- Pilots must not assist in the mixing and loading operations.
- Hand-held equipment is prohibited for applications to crops. This product must be applied to crops only with mechanical ground, overhead sprinkler chemigation or aerial application equipment.
- Use only in commercial and farm plantings. Not for use in home plantings. Not for use during any period after a commercial crop site is opened for public entry as a "U-Pick", "Pick Your Own" or similar operation; in no case shall preharvest applications be made after first public entry. The restricted entry interval and preharvest interval for the crop stated elsewhere on this label must be followed.

## RESISTANCE MANAGEMENT

For resistance management, ROTAM METHOMYL 29LV INSECTICIDE contains a Group 1A insecticide. Any insect/mite population may contain individuals naturally resistant to ROTAM METHOMYL 29LV INSECTICIDE and other Group 1A insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of ROTAM METHOMYL 29LV INSECTICIDE or other Group 1A insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.

- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Albaugh at 1-800-247-8013.

### **INTEGRATED PEST MANAGEMENT**

This product should be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

### **SCOUTING**

Monitor insect populations to determine whether or not there is a need for application of ROTAM METHOMYL 29LV INSECTICIDE based on locally determined economic thresholds. More than one treatment of ROTAM METHOMYL 29LV INSECTICIDE may be required to control a population of pests.

### **BENEFICIAL ARTHROPODS**

ROTAM METHOMYL 29LV INSECTICIDE at rates of 2/5 to 3/4 pint per acre helps conserve certain beneficials, including big-eyed bugs, damsel bugs, flower bugs and spiders in cotton and soybeans. While these beneficials cannot be relied upon to control pests, they are of potential value and should be monitored along with pests in pest management programs on these crops.

### **SPRAY PREPARATION**

Do not apply during rain. Do not apply when soil in the area to be treated is saturated (if there is standing water on the field or if water can be squeezed from soil) or if NOAA/National Weather Service predicts a total rainfall of 1 inch or greater over the 48 hours following the day of application, only considering a 48-hour period when, at any point during the 48-hour period, the precipitation potential is 50% or greater. Detailed National Weather Service forecasts for local weather conditions should be obtained on-line at: [www.weather.gov](http://www.weather.gov) or by contacting your local National Weather Service Forecasting Office.

Spray equipment must be clean and free of previous pesticide deposits before applying ROTAM METHOMYL 29LV INSECTICIDE. Fill spray tank 1/4 to 1/2 full of water. Add ROTAM METHOMYL 29LV INSECTICIDE directly to spray tank. Mix thoroughly. Use mechanical or hydraulic means; do not use air agitation. Spray mix should not be stored overnight in spray tank. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures.

Compatibility - Since formulations may be changed and new ones introduced, in this situation users can premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.) before applying the product. This product can be tank mixed with pesticide products labeled for use on crops on this label in accordance with the most restrictive of label limitations and precautions. Do not exceed label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing.

Do not use ROTAM METHOMYL 29LV INSECTICIDE with Bordeaux mixture (copper sulfate and hydrated lime), Du Ter triphenyltin hydroxide, lime sulfur, Rayplex iron nor in highly alkaline solutions. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

Tank Mix Sequence - Add different formulation types in the sequence indicated below. Allow time for complete mixing and dispersion after addition of each product.

1. Water soluble bags.
2. Water dispersible granules.
3. Wettable powders.
4. Water based suspension concentrates.
5. ROTAM METHOMYL 29LV INSECTICIDE and other water soluble concentrates.
6. Oil based suspension concentrates.
7. Emulsifiable concentrates.
8. Adjuvants, surfactants, oils, soluble fertilizers, and drift retardants. Follow local practice and manufacturer's recommendation.



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.

## APPLICATION

Apply at the recommended rates when insect populations reach locally determined economic thresholds. Consult the cooperative extension service, professional consultants or other qualified authorities to determine appropriate threshold levels for treatment in your area.

Follow-up treatments of ROTAM METHOMYL 29LV INSECTICIDE should be applied, as needed, to keep pest populations within threshold limits. On most crops, ROTAM METHOMYL 29LV INSECTICIDE should be applied at 5 to 7 day intervals to maintain control. Refer to crop specific directions for use in the crop tables for more specific information on treatment intervals.

Use sufficient water to obtain thorough, uniform coverage. Since ROTAM METHOMYL 29LV INSECTICIDE is a fast acting contact insecticide, best results follow direct spraying of the target insect.

For aerial, use a minimum of 2 gals., per acre (gpa) except 10 gpa for peaches and nectarines; 15 gpa for oranges, lemons, grapefruit, tangelos, and tangerines.

ROTAM METHOMYL 29LV INSECTICIDE is recommended for use as a low volume aerial spray 0.53 gpa (2L) for cotton\* and soybeans\* and 1 gpa for the crops listed below providing the following conditions are met:

- equipment is adjusted to distribute spray uniformly over the spray swath,
- wind conditions and other factors such as temperature and humidity are such that the spray is delivered to the target area,
- local regulations do not prohibit low-volume aerial sprays,
- use rates are applied as directed on the package label for the following crops:

Alfalfa	Celery	Peas (succulent)
Anise	Collards	Peppermint
Asparagus	Corn	Peppers
Beans	Cotton	Potato
Broccoli	Cucumber	Soybean
Brussels sprouts	Lettuce	Spinach
Cabbage	Melons	Sugar beet
Carrot	Mint	Summer Squash
Cauliflower	Peanuts	Wheat

Apply the low rates on small plants, small insects and light infestations of insects. Use intermediate rates on large insects and heavier infestations of insects. Use 1 to 3 applications of the highest recommended rate for controlling severe infestations. Thereafter, use the lowest rate possible to maintain control.

\*Not registered for aerial application in a diluted volume of less than 1 gal. in CA.

## SPRAY TANK CLEANOUT

Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove.

Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom and nozzles with clean water.

Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment. Do not clean near wells, water sources, or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

## CHEMIGATION

### Overhead Sprinkler Chemigation

**Instructions for the Use of ROTAM METHOMYL 29LV INSECTICIDE on Alfalfa, Dry Beans, Green and Dry Bulb Onions, Potatoes, Succulent Beans, Succulent Peas, Sugar Beets, Sweet Corn, and Wheat Using Overhead Sprinkler Chemigation**

Overhead sprinkler Chemigation is allowed for use in alfalfa, succulent and dry beans, onions, succulent peas, potatoes, sugar beets, sweet corn, and wheat. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in this product label.



Overhead Chemigation applications offer the advantage of greater penetration and coverage of the target plant. However, typical Chemigation applications are more dilute than ground or aerial applications. For best results, it is recommended to keep the concentration of ROTAM METHOMYL 29LV INSECTICIDE as high as possible in the application. Apply ROTAM METHOMYL 29LV INSECTICIDE in 0.1 to 0.2 inches of water per acre.

ROTAM METHOMYL 29LV INSECTICIDE is most active as a contact insecticide, although it does also have activity via ingestion of treated plants. For best results, applications of ROTAM METHOMYL 29LV INSECTICIDE should take place when the insects are active and most likely to come into direct contact with the application.

### **Types of Overhead Sprinkler Irrigation Systems**

ROTAM METHOMYL 29LV INSECTICIDE may be applied through overhead sprinkler irrigation systems for control of various pests. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible buildup of material on 100 mesh or smaller screens. Do not apply ROTAM METHOMYL 29LV INSECTICIDE through any other type of irrigation systems, except those allowed by instructions provided in this main product label.

### **Directions for Overhead Sprinkler Chemigation**

**Preparation:** A pesticide tank is used for the application of ROTAM METHOMYL 29LV INSECTICIDE in Chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of ROTAM METHOMYL 29LV INSECTICIDE into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of ROTAM METHOMYL 29LV INSECTICIDE. Once in solution, no further agitation is required. Injection solution should not be stored overnight. Highly alkaline water should be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic (pH5-7).

**Injection Into Overhead Sprinkler Chemigation System:** Inject the proper amount of the ROTAM METHOMYL 29LV INSECTICIDE solution into the irrigation water flow using a positive displacement injection pump. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

**Operation:** Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. Apply ROTAM METHOMYL 29LV INSECTICIDE in 0.1 to 0.2 inches of water per acre. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system. End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.

Nozzles in the immediate area of control panels, chemical supply tanks, wellheads and system safety devices must be plugged to prevent contamination of these areas.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.

**Cleaning the System:** Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

### **Drip Chemigation**

#### **Instructions for the Use of ROTAM METHOMYL 29LV INSECTICIDE on green and dry bulb onions Using Drip Chemigation**

Drip Chemigation is allowed in green and dry bulb onions. Do not apply this product through any other type of irrigation systems, except those allowed by instructions provided in this product label.

### **Types of Drip Irrigation Systems**

The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible buildup of material on 100 mesh or smaller screens. Do not apply ROTAM METHOMYL 29LV INSECTICIDE through any other type of irrigation systems, except those allowed by instructions provided in this main product label.

### **Directions for Drip Chemigation**

#### **Drip Guidance:**

1. Tape placement is critical. All products applied via drip irrigation must be deposited in the root zone. Place the tape either under each row or within each bed at the minimum depth that allows planting. The goal is to have the tape within or adjacent to the root zone and buried no more than 2 inches deep.
2. Optimum emitter spacing is 6 inches or less. The maximum emitter spacing must not exceed 12 inches. Emitters must be free of debris and deliver consistent amounts of water. Best results are seen when the same amount of ROTAM METHOMYL 29LV INSECTICIDE comes out of each emitter.
3. Adjust the irrigation cycle so that the water reaches the entire root zone without being pushed beyond the root zone.
4. The minimum injection time that will result in uniform distribution of ROTAM METHOMYL 29LV INSECTICIDE throughout the field is the time it takes water to move from the injection point to the most distant emitter. Extending the injection time to twice the minimum will improve uniformity of the application. Also applications made with lower delivery volumes of water will improve uniformity.
5. When the drip tape is located between two single or double rows of onions, begin injection of ROTAM METHOMYL 29LV INSECTICIDE as soon as the system is up to pressure and continue through the first half to two-thirds of the irrigation cycle. The purpose is to ensure that the ROTAM METHOMYL 29LV INSECTICIDE is pushed all the way to the root zone of the outer row and not left in the area around the emitter.
6. Applications should be made before pests reach thresholds.
7. Drip chemigation works best when fields are relatively flat.
8. The tape flow rate should be matched to the soil type, crop and climate. Too much flow can result in puddling and excessive time at soil saturation. Consult the tape manufacturer for more information.

**Preparation:** A pesticide tank is used for the application of ROTAM METHOMYL 29LV INSECTICIDE in chemigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Add 1/4 to 1/2 of the desired amount of water and then measure the required amount of ROTAM METHOMYL 29LV INSECTICIDE into the tank. Complete filling the tank by adding the required amount of water. Agitate thoroughly to insure a uniform solution of ROTAM METHOMYL 29LV INSECTICIDE. Once in solution, no further agitation is required. Injection solution should not be stored overnight.

**Injection Into Drip Chemigation Systems:** Inject the proper amount of the ROTAM METHOMYL 29LV INSECTICIDE solution into the irrigation water flow. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water. The injection solution containing ROTAM METHOMYL 29LV INSECTICIDE should be injected during the middle one-third of the irrigation cycle.

**Operation:** Start the water pump and let the system achieve the desired pressure and flow before starting the injector. Start the injector and calibrate the injection system. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

Do not apply when system connections or fittings leak or when emitters do not provide uniform distribution.

**Cleaning the System:** Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. ROTAM METHOMYL 29LV INSECTICIDE should not be applied at the same time that a drip/irrigation line clean out product is being used as performance may be reduced. Dispose of any residues in

accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

### **Additional Chemigation Directions (both overhead and drip)**

#### **Uniform Water Distribution**

The irrigation system used for application of ROTAM METHOMYL 29LV INSECTICIDE must provide for uniform distribution of ROTAM METHOMYL 29LV INSECTICIDE treated water. Non-uniform distribution might result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

#### **Equipment Calibration**

Calibrate the irrigation system and injector before applying ROTAM METHOMYL 29LV INSECTICIDE. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

#### **Monitoring of Chemigation Applications**

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for cleaners and repairers of application equipment when making adjustments or repairs on the chemigation system when ROTAM METHOMYL 29LV INSECTICIDE is in the irrigation water.

#### **Required System Safety Devices**

Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such a system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

#### **Posting of Areas to be Treated**

Posting of areas to be chemigated is required when: 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes, or any other public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The signs shall be printed in ENGLISH.

Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color, which sharply contrasts with their immediate background.

At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATED WATER". Posting for chemigation does not replace other posting and reentry requirements for farm worker safety.

#### **Mandatory Spray Drift Management**

Do not apply by ground equipment within 25 feet, or by air within 100 feet of lakes, reservoirs, rivers, estuaries, commercial fish ponds and natural, permanent streams, marshes or natural, permanent ponds. Increase the buffer zone to 450 feet from the above aquatic areas when ultra-low volume application is made.

#### **Aerial Applications:**

- Do not apply methomyl within 50 feet of residential areas, including schools, homes, playgrounds, recreational areas, athletic fields, residential lawns, gardens, and other areas where children may be present.
- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American Society of Agricultural & Biological Engineers Standard 641 (ASABE S641).
- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes) must register between 3 and 10 miles per hour.
- Wind speed and direction must be measured on location using a windsock, an anemometer (including systems to measure wind speed or velocity on an aircraft), or an aircraft smoke system.
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- Applicators must use a minimum of ½ swath displacement upwind at the downwind edge of the field.
- The boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

#### **Ground Boom Applications:**

- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes), must register between 3 and 10 miles per hour.
- Wind speed and direction must be measured on location using a windsock or anemometer (including systems to measure wind speed or velocity using application equipment).
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- Do not release spray at a height greater than 3 feet above the ground or crop canopy.
- Applicators must select nozzle and pressure that deliver medium or coarser droplets in accordance with American

Society of Agricultural & Biological Engineers Standard 572 (ASABE S572).

- Do not apply during temperature inversions.

#### Airblast applications:

- Sprays must be directed into the canopy.
- During application, the Sustained Wind Speed, as defined by the National Weather Service (standard averaging period of 2 minutes), must register between 3 and 10 miles per hour.
- Wind speed and direction must be measured on location using a windsock or anemometer (including systems to measure wind speed or velocity using application equipment).
- Wind speed must be measured at the release height or higher, in an area free from obstructions such as trees, buildings, and farm equipment.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- Do not apply during temperature inversions.

#### CROP RATE TABLE

If applying ROTAM METHOMYL 29LV INSECTICIDE to more than one crop, do not apply more than 13 lb ai (43.3 pints) / acre/ year. See crop-specific maximum annual application rates below.

Crops	Insects	Rate ROTAM METHOMYL 29LV INSECTICIDE Pts. Per Acre	Last Application - Days To Harvest	REI
Alfalfa	Pea Aphid	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	7*	48 hrs.
	Lygus Bugs			
	Blotch Leafminer			
	Aphids			
	Egyptian Alfalfa			
Alfalfa	Weevil Larvae	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	7*	48 hrs.
	Loopers			
	Beet Armyworm			
	Armyworm			
	Alfalfa Caterpillar			
Alfalfa	Fall Armyworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	7*	48 hrs.
	Western Yellowstriped Armyworm			
	Yellowstriped Armyworm			
	Alfalfa Weevil Larvae			
	Variegated Cutworm			
Alfalfa	Do not apply to dormant or semi-dormant alfalfa when minimum, daily temp, is 50°F, or lower. Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year. <b>Chemigation:</b> ROTAM METHOMYL 29LV INSECTICIDE may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV INSECTICIDE. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Do not apply within 7 days of cutting or allowing livestock to graze. When this product is used on alfalfa grown for seed, the seed may not be used for sprouts. All seed from treated crop must be tagged, "Not for Human use" at the processing plant.	3 (0.9 lb ai/acre)	7	48 hrs.
	Cabbage Looper			
	Beet Armyworm			
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 6 applications per year.			

Apple (Ground application only)	Apple Aphid Rosy Apple Aphid Tufted Apple Budmoth Green Fruitworm Brown Marmorated Stink Bug ** Tarnished Plant Bug	1 1/2 - 3* (0.45 – 0.9 lb ai/acre)	14	72 hrs.
	Codling Moth (10-12 day spray intervals)			
	Leafrollers (Fruit-tree, Obliquebanded, Redbanded, Variegated) Lesser Appleworm White Apple Leafhopper Tentiform Leafminer Cutworm	3* (0.9 lb ai/acre)		
	Do not use on Early Macintosh & Wealthy varieties Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 5 applications per year; minimum interval between treatments is 7 days. *Apply in a minimum of 50 gallons of water per acre. ** Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide.			
Asparagus	Beet Armyworm Western Yellowstriped Armyworm Asparagus Beetle Spotted Asparagus Beetle White Cutworm Redbacked Cutworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	48 hrs.
	Variegated Cutworm	1 1/2 (0.45 lb ai/acre)		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year.			
Avocado	Western Avocado Leafroller Omnivorous Looper	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	48 hrs.
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 2 applications per year.			
Beans (Succulent) Including: Kidney, Lima, Mung, Navy, Pinto, Snap, Wax, Broad, Fava, Asparagus, Blackeyed peas, Cowpeas, Chick peas, Garbanzo beans, Sweet lupine,	Leafhopper	3/4 – 3 (0.23 – 0.9 lb ai/acre)	Succulent Beans 3/4 - 1 1/2 pts.- 1 Over 1 1/2 pts. - 3 3 - Vines 7 - Hay	48 hrs.
	Mexican Bean Beetle			
	Fall Armyworm	1 1/2		
	Variegated Cutworm(**)	(0.45 lb ai/acre)		
	Beet Armyworm(**)	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)		
	Corn Earworm			
	Saltmarsh Caterpillar(**)			
	Yellowstriped Armyworm(**)			
	Western Yellowstriped Armyworm(**)			
	Lygus Bugs			
Thrips				
Aphids(**)				
Loopers*(**)				
Brown Marmorated Stink Bug ***				



White sweet lupine, White lupine, Grain lupine	European Corn Borer (Ovicide & Larvicide) -- Initiate when moth flights first appear and-continue preventive treatments at 3-4 day intervals to control eggs and larvae.			
	Spotted Cucumber Beetle	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)		
	<p>Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year.</p> <p>*Do not use for Loopers in AL &amp; GA.</p> <p>(**)Chemigation: ONLY in Idaho, Montana, Nevada, Oregon, Utah, and Washington – This product may be applied by overhead sprinkler chemigation for control of beet armyworm, yellowstriped armyworm, western yellowstriped armyworm, saltmarsh caterpillar, aphids, variegated cutworm, and loopers at a rate of 3 pints of product per acre. Use of a wetting agent may improve performance. Make sequential applications at 5 to 7 day intervals or until pest populations are brought below threshold. Apply in 0.1 to 0.2 inches of water per acre. See "Chemigation" section for more information.</p> <p>*** Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest. Use sufficient water to obtain thorough, uniform coverage. Use sufficient water to obtain thorough, uniform coverage. Use a minimum of 20 gallons of water per acre for ground applications and 5 gallons of water per acre for aerial applications</p>			
<b>Beans</b> (Dry) (Same as Succulent Beans)	(Same as Succulent Beans)	(Same as Succulent Beans)	14 - Dry Beans* 14 - Vines* 14 - Hay*	
	<p>Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE/acre/year. Do not make more than 10 applications per year. Do not use for Loopers in AL &amp; GA.</p> <p>*Do not apply within 14 days of cutting.</p> <p>(**)Chemigation: ONLY in Idaho, Montana, Nevada, Oregon, Utah, and Washington – This product may be applied by overhead sprinkler chemigation for control of beet armyworm, yellowstriped armyworm, western yellowstriped armyworm, saltmarsh caterpillar, aphids, variegated cutworm, and loopers at a rate of 3 pints of product per acre. Use of a wetting agent may improve performance. Make sequential applications at 5 to 7 day intervals or until pest populations are brought below threshold. Apply in 0.1 to 0.2 inches of water per acre. See "Chemigation" section for more information.</p> <p>*** Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest. Use sufficient water to obtain thorough, uniform coverage. Use sufficient water to obtain thorough, uniform coverage. Use a minimum of 20 gallons of water per acre for ground applications and 5 gallons of water per acre for aerial applications.</p>			48 hrs.
<b>Beets</b> (Table)	Imported Cabbageworm	3/4 – 3 (0.23 – 0.9 lb ai/acre)		
	Beet Armyworm Cabbage Looper Diamondback Moth	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	0 - roots 10 - tops	
	Cucumber Beetle	1 1/2		
	Variegated Cutworm	(0.45 lb ai/acre)		48 hrs.



	Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year.			
Bermudagrass pasture	Fall Armyworm Armyworm Striped Grass Looper	3/4 – 3 (0.23 – 0.9 lb ai/acre)	7 - Forage* 3 - Dehydrated Hay**	48 hrs.
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year. *Do not apply within 7 days of feeding forage or allowing livestock to graze. **Do not apply within 3 days of cutting for hay.			
Blueberries	Blueberry Leafhopper Aphids Tussock Moth Weevil Sharp-Nosed Leafhopper	1 1/2 (0.45 lb ai/acre)	3	48 hrs.
	Cranberry Fruitworm* Cherry Fruitworm* Brown Marmorated Stink Bug *† Spotted Wing Drosophila **	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)		
	Flea Beetle (larvae) Sawfly (larvae) Blueberry Leafroller	3 (0.9 lb ai/acre)		
	Blueberry Maggot	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)		
	Do not apply during bloom. Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year. *For ground use only. † Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest and the use of the highest labeled rate. Use sufficient water to obtain thorough, uniform coverage. Use a minimum of 50 gallons of water per acre. ** Apply when the first adult spotted wing drosophila are trapped or based on local university crop stage timing recommendations in order to protect ripening fruit. Apply by properly calibrated air or ground equipment using sufficient spray volume to obtain thorough coverage. For aerial application in dense growth blueberries, use a minimum spray volume of 10 gallons per acre.			
Broccoli	Loopers Diamondback Moth	1 1/2 - 3** (0.45 – 0.9 lb ai/acre)	3	48 hrs.
	Imported Cabbageworm	3/4 - 3** (0.23 – 0.9 lb ai/acre)		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year; minimum interval between treatments is 2 days. **Add a wetting agent to improve coverage.			
Brussels Sprouts	Loopers Imported Cabbageworm Diamondback Moth	1 1/2 - 3** (0.45 – 0.9 lb ai/acre)	3	48 hrs.

	Variegated Cutworm	1 1/2** (0.45 lb ai/acre)		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year; minimum interval between treatments is 2 days. ** Add a wetting agent to improve coverage.			
Cabbage	Loopers* Diamondback Moth Fall Armyworm	1 1/2 - 3** (0.45 – 0.9 lb ai/acre)	1	48 hrs.
	Imported Cabbageworm	3/4 - 3** (0.23 – 0.9 lb ai/acre)		
	Variegated Cutworm	1 1/2** (0.45 lb ai/acre)		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 15 applications per year; minimum interval between treatments is 2 days. *Do not use for Loopers in AL & GA. **Add a wetting agent to improve coverage.			
Carrot	Beet Armyworm Armyworms Aster Leafhopper	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	48 hrs.
	Variegated Cutworm	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year.			
Cauliflower	Imported Cabbageworm	3/4 - 3** (0.23 – 0.9 lb ai/acre)	3	48 hrs.
	Loopers Diamondback Moth	1 1/2 - 3** (0.45 – 0.9 lb ai/acre)		
	Variegated Cutworm	1 1/2** (0.45 lb ai/acre)		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year; minimum interval between treatments is 2 days. **Add a wetting agent to improve coverage.			
Celery	Beet Armyworm Aster Leafhopper	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	7	48 hrs.
	Loopers	3 (0.9 lb ai/acre)		
	Variegated Cutworm	1 1/2 (0.45 lb ai/acre)		
	Armyworms	3/4 – 3 (0.23 – 0.9 lb ai/acre)		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year.			
Chicory	Beet Armyworm Variegated Cutworm Leafhoppers	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	80	48 hrs.

	Do not apply more than 6 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 2 applications per year.			
<b>Chinese Cabbage</b> (Napa, Bok Choy)	Loopers	1 1/2 - 3*	10	48 hrs.
	Beet Armyworm	(0.45 – 0.9 lb ai/acre)		
	Do not apply more than 24 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year. *Minimum of 25 gallons water per acre by ground or 5 gallons by air.			
<b>Collards</b> (Fresh market only)	Diamondback Moth	1 1/2	10	48 hrs.
	Variegated Cutworm	(0.45 lb ai/acre)		
	Imported Cabbageworm			
	Beet Armyworm	1 1/2 – 3		
	Loopers*	(0.45 – 0.9 lb ai/acre)		
	Do not apply when temp, is less than 50°F. Do not apply when crop is less than 10" tall. Do not apply more than 18 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year. *Do not use for Loopers in AL & GA.			
<b>Corn</b> (Field, Popcorn & Seed)	Earworm (Ovicide/Larvicide)	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)	21 - Ears 3 - Forage* 21 - Stover*	
	Armyworm			
	Fall Armyworm			
	European Corn Borer- Ears 1-3 days or as needed			
	Corn Rootworm (adult beetles)			
	Flea Beetles			
	Picnic Beetles			
	Aphids			
	Variegated Cutworm	1 1/2 (0.45 lb ai/acre)		
	Beet Armyworm			
	Brown Marmorated Stink Bug **			
	Do not apply more than 7.5 pints, of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 5 applications per year. *Corn forage is green actively growing plants that are harvested with the ears intact. The plants can be fed directly to animals or used to make silage. Corn stover are the parts of the plant that remain after removal of the grain at full plant maturity. These remaining stalks and leaves can be fed as roughage to animals. ** Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest. Use sufficient water to obtain thorough, uniform coverage. Use a minimum of 20 gallons of water per acre for ground applications and 5 gallons of water per acre for aerial applications. Timing of applications: Do not make more than two applications to corn prior to tassel push. Make 1 application when corn is at 1-2 leaf stage for control of early season pests; make a second application, if needed, 5-7 days later.			48 hrs.

Corn (Sweet)	Earworm--Whorl as needed	1 - 1 1/2 (0.3– 0.45 lb ai/acre)	0 - Ears 3 - Forage 21 - Stover	48 hrs.
	Fall Armyworm Armyworm Earworm (Ovicide/Larvicide) European Corn Borer - Ears 1-3 days or as needed Corn Rootworm (adult beetles) Flea Beetles Picnic Beetles Aphids	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)		
	Variegated Cutworm Beet Armyworm Brown Marmorated Stink Bug *	1 1/2 (0.45 lb ai/acre)		
	Certain hybrid varieties of sweet corn are susceptible to methomyl injury. Treat a small area to determine crop safety before full scale spraying. Do not apply more than 21 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 28 applications per year; minimum interval between treatments is 1 day. Do not make more than two applications to corn prior to tassel push. Make one application when corn is at 1-2 leaf stage for control of early season pests; make a second application, if needed, 5-7 days later. * Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest. Use sufficient water to obtain thorough, uniform coverage. Use a minimum of 20 gallons of water per acre for ground applications and 5 gallons of water per acre for aerial applications.			
Cotton - All U.S.	Ovicide/Larvicide - Bollworm, Tobacco Budworm (Initiate schedule when significant numbers of eggs are present. Continue at 3- to 5-day intervals while eggs are present and larval control is adequate. If significant larvae survive, use higher rates below.), Lygus Bugs/Plant Bugs (adults and nymphs) - Start treatment on low level population for suppression.	2/5 - 3/4 (0.11 – 0.23 lb ai/acre) (see Insect Predator Section)	15	72 hrs.
	Cotton Leafworm	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)		
	Cotton Fleahopper (as needed)	2/5 - 3/4 (0.11 – 0.23 lb ai/acre)		

	Aphids Thrips	3/4 (0.23 lb ai/acre)		
East of Rockies Only	<b>(Early Season)</b> Bollworm, Tobacco Budworm, Beet Armyworm, Cotton Leafperforator, Fall Armyworm, Lygus Bugs/Plant Bugs (adults and nymphs) Use as occasional spray in regular schedule but not more often than every 10 days.	1 1/2 (0.45 lb ai/acre)		
East of Rockies Only	<b>(Late Season)</b> Bollworm, Tobacco Budworm, Beet Armyworm, Cotton Leafperforator, Fall Armyworm, Lygus Bugs/Plant (adult and nymphs) Up to 3 applications at 3-5 day intervals after desired boll load set on plants.	1 1/2 - 2 1/4 (0.45 – 0.68 lb ai/acre)		
Texas	Cotton Aphid	3/4 – 2 (0.23 – 0.6 lb ai/acre)		
West of Rockies only	<b>Larvicide for worms:</b> Bollworm Fall Armyworm Tobacco Budworm Lygus Bugs Beet Armyworm	1 1/2 - 2 1/4 (0.45 – 0.68 lb ai/acre)	15	72 hrs.
	Cotton Leafperforator	1 - 2 1/4 (0.3 – 0.68 lb ai/acre)		
<b>For applications West of the Rockies,</b> make applications on 3-5 day intervals after desired boll load set on plants. <b>For all applications made to cotton in the United States:</b> Do not apply more than 6 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year. Do not graze or feed. Use may redden cotton. If excessive, stop or alternate with other insecticides.				

Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1 1/2 lb. -- 1 Over 1 1/2 pts. -- 3	48 hrs.
	Variegated Cutworm	1 1/2 (0.45 lb ai/acre)		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 12 applications per year.			
Eggplant	Green Peach Aphid	3/4 – 3 (0.23 – 0.9 lb ai/acre)	5	48 hrs.
	Tomato Pinworm (Ground Application only) Beet Armyworm Corn Earworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year.			
	Endive, Escarole			
Beet Armyworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	10	48 hrs.	
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year.			
Garlic	Beet Armyworm	1 1/2** (0.45 lb ai/acre)	7	48 hrs.
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 6 applications per year. **Add a wetting agent to improve coverage.			
Grapefruit CA, AZ & HI only	Thrips Fruit-tree Leafroller Orange Tortrix Western Tussock Moth Beet Armyworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	72 hrs.
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year.			
Horseradish Ground application only	Aphids Thrips	1 1/2 (0.45 lb ai/acre)	65	48 hrs.
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year.			
Leafy Green Vegetables: Beet (tops), Dandelions, Kale, Mustard Greens, Parsley, Swiss Chard, Turnip Greens	Beet Armyworm Cabbage Looper* Diamondback Moth Imported Cabbageworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	10	48 hrs.
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year. *Do not use for Cabbage Loopers in AL & GA.			

<b>Lemon</b> CA, AZ & HI only	Thrips	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	72 hrs.
	Western Tussock Moth Orange Tortrix Beet Armyworm			
Do not apply more than 9 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year.				
<b>Lentils</b>	Western Yellowstriped Armyworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	21	48 hrs.
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 2 applications per year.			
<b>Lettuce</b> (Head and Leaf varieties)	Alfalfa Looper	3/4 – 3 (0.23 – 0.9 lb ai/acre)	3/4 - 1 1/2 pts. -- 7 Over 1 1/2 lb. -- 10	48 hrs.
	Thrips	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)		
	Aphids			
	Beet Armyworm			
	Cabbage Looper	1 1/2 (0.45 lb ai/acre)		
Corn Earworm				
Aster Leafhopper				
<b>Lettuce (head varieties)</b> Do not apply more than 21 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 12 applications per year; minimum interval between treatments is 2 days. <b>Lettuce (leaf varieties)</b> Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 6 applications per year; minimum interval between treatments is 2 days.				
<b>Melons</b> Including: Cantaloupe, Casaba, Santa Claus melon, Crenshaw melon, Honeydew melon, Honey dew melon	Loopers	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1 1/2 pts. -- 1 Over 1 1/2 pts. -- 3	48 hrs.
	Tobacco Budworm			
	Beet Armyworm			
	Variegated Cutworm	1 1/2 (0.45 lb ai/acre)		
Do not apply more than 18 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 12 applications per year.				
<b>Mint</b> (Peppermint, Spearmint)	Variegated Cutworm	3 (0.9 lb ai/acre)	14	48 hrs.
	Alfalfa Looper			
	Flea Beetles	2 1/4 – 3 (0.68 – 0.9 lb ai/acre)		
Do not apply more than 6 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year.				
<b>Nectarine</b> CA & AZ only	Thrips	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	72 hrs.
	Brown Marmorated Stink Bug *			



	Do not apply more than 9 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 3 applications per year. * Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest and the use of the highest labeled rate. Apply by ground application only and use sufficient water to obtain thorough, uniform coverage. Use a minimum of 50 gallons of water per acre.																
Onions (Green & Dry Bulb)	Beet Armyworm	1 1/2 - 3** (0.45 – 0.9 lb ai/acre)	7 - Green & Dry Bulb Onions	48 hrs.													
	Thrips*	3**															
	Variegated Cutworm Black Cutworm	(0.9 lb ai/acre)															
	<b>Onions, green</b> Do not apply more than 18 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year; minimum interval between treatments is 5 days. <b>Onions, dry bulb</b> Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year; minimum treatment interval between treatments is 5 days. * <b>Chemigation:</b> ROTAM METHOMYL 29LV INSECTICIDE may be applied by overhead sprinkler chemigation (1 1/2 - 3 pints/ acre) to control thrips. Begin applications before thrips populations reach 3-5 thrips per plant. For best results, use the highest rate of ROTAM METHOMYL 29LV INSECTICIDE and a wetting agent. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. **Add a wetting agent to improve coverage. <b>Drip Chemigation:</b> ROTAM METHOMYL 29LV INSECTICIDE may be applied via drip irrigation (3 pints/acre) ONLY in Idaho, Nevada, Oregon, Utah, and Washington.. Treatments should begin before populations of thrips reach 3-5 thrips per plant. Once thrips populations reach an average of 10 thrips per plant or higher, it is very difficult to achieve satisfactory control with any insecticide program. Make sequential applications at 7 to 10 day intervals. Consider use of products with an alternate mode of action as part of your thrips control program. When using sprinkler irrigation, apply in 0.1 to 0.2 inches of water per acre. Drip Chemigation in the states of ID, NV, OR, UT, and WA ONLY. The rate of this product is listed as a broadcast rate. For drip irrigation rates of this product to be applied per 1000 feet, see example in the table below. <b>Instructions for the Use of ROTAM METHOMYL 29LV INSECTICIDE in Drip Chemigation</b>																
	<table><tr><th>Bed Spacing</th><th>Linear Ft. of Bed to Equal one Acre</th><th>Rotam Methomyl 29LV Insecticide Pt./A rate per 1,000 Row Feet</th></tr><tr><td>36 inches</td><td>14,520 ft.</td><td>3.3 fl. oz.</td></tr><tr><td>48 inches</td><td>10,890 ft.</td><td>4.4 fl. oz.</td></tr><tr><td>60 inches</td><td>8,712 ft.</td><td>5.5 fl. oz.</td></tr><tr><td>72 inches</td><td>7,260 ft.</td><td>6.6 fl. oz.</td></tr></table>				Bed Spacing	Linear Ft. of Bed to Equal one Acre	Rotam Methomyl 29LV Insecticide Pt./A rate per 1,000 Row Feet	36 inches	14,520 ft.	3.3 fl. oz.	48 inches	10,890 ft.	4.4 fl. oz.	60 inches	8,712 ft.	5.5 fl. oz.	72 inches
Bed Spacing	Linear Ft. of Bed to Equal one Acre	Rotam Methomyl 29LV Insecticide Pt./A rate per 1,000 Row Feet															
36 inches	14,520 ft.	3.3 fl. oz.															
48 inches	10,890 ft.	4.4 fl. oz.															
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72 inches	7,260 ft.	6.6 fl. oz.															
See "Chemigation" section for more information.																	

<b>Oranges</b> CA, AZ & HI only	Thrips Western Tussock Moth Orange Tortrix Fruit-tree Leafroller Beet Armyworm Citrus Cutworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	72 hrs.
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year.			
<b>Peaches</b>	Cat-facing Insects (Plant Bugs and Stink Bugs) - Begin at petal fall and continue in cover sprays at 7- to 10-day intervals. Oriental Fruit Moth* - Begin at petal fall; use trapping devices and frequent field inspection to determine need for treatment. Continue treatment in cover sprays and alternate with residual-type insecticides registered for this use. Green Peach Aphid	3 (0.9 lb ai/acre) (or 3/4 lb. per 100 gals. up to 400 gals. per acre)	4	4 days
	Brown Marmorated Stink Bug **	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)		
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 6 applications per year. *Oriental Fruit Moth (Ground Application Only). ** Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest and the use of the highest labeled rate. Apply by ground application only and use sufficient water to obtain thorough, uniform coverage. Use a minimum of 50 gallons of water per acre.			
<b>Peanuts</b>	Corn Earworm* Potato Leafhopper Fall Armyworm	3/4 – 3 (0.23 – 0.9 lb ai/acre)	21	48 hrs.
	Beet Armyworm	1 1/4 – 3 (0.34 – 0.9 lb ai/acre)		
	Green Cloverworm Velvetbean Caterpillar Cabbage Looper Soybean Looper** Thrips Granulate Cutworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year. Do not feed treated vines. *ROTAM METHOMYL 29LV INSECTICIDE has ovicidal and larvicidal control on corn earworm. **Soybean Looper is difficult to control. Do not apply to worms greater than 1/2" long. Use higher rate for severe infestations.			
<b>Pears</b> CT, DE, NH, NJ, NY, MD, ME,	Green Fruitworm Oblique banded Leafroller Brown Marmorated Stink Bug **	1 1/2 - 3* (0.45 – 0.9 lb ai/acre)	7	48 hrs.

MA, PA, RI, and VT	Do not apply more than 6 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 2 applications per year. * Apply in a minimum of 50 gallons of water per acre. ** Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest and the use of the highest labeled rate. Apply by ground application only and use sufficient water to obtain thorough, uniform coverage.			
<b>Peas</b> (succulent) Including: Pigeon peas, Chick peas, Garbanzo beans, Dwarf peas, Garden peas, Green peas, English Peas, Field peas, Edible pod peas	Alfalfa Looper Cabbage Looper* Pea Aphid Beet Armyworm Saltmarsh Caterpillar Variegated Cutworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1 - Peas 5 - Forage 14 - Hay	48 hrs.
	Alfalfa Caterpillar Armyworm Green Cloverworm	3/4 – 3 (0.23 – 0.9 lb ai/acre)		
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 6 applications per year; minimum interval between treatments is 3 days. *Do not use for Cabbage Loopers in AL & GA. <b>Chemigation:</b> ROTAM METHOMYL 29LV INSECTICIDE may be applied via overhead sprinkler irrigation in ID, MT, NV, OR, UT, and WA at the rate of 3 pints of product per acre. Apply in 0.1 to 0.2 inches of water per acre. Use of a wetting agent may improve performance. Make sequential applications at 5- to-7 day intervals or until worm populations are brought below threshold. Do not apply more than 9 pints (2.7 lbs. a.i.) of ROTAM METHOMYL 29LV INSECTICIDE per acre per year to succulent peas.			
<b>Pecans</b> AL, AR, FL, GA, LA, KY, NC, MS, SC, TN, VA, and WV	Aphids	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	30	48 hrs.
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 7 applications per year.			
<b>Peppers</b> Including: Bell, Hot, Pimentos, Sweet	Loopers Beet Armyworm Green Peach Aphid Armyworm Fall Armyworm Brown Marmorated Stink Bug *	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	3	48 hrs.
	Variegated Cutworm	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)		
	European Corn Borer	3 (0.9 lb ai/acre)		
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year. * Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest and the use of the highest labeled rate. Use sufficient water to obtain thorough, uniform coverage. Use a minimum of 20 gallons of water per acre for ground applications and 5 gallons of water per acre for aerial applications.			

Pomegranates	Omnivorous Leafroller	3 (0.9 lb ai/acre)	14	48 hrs.
	Do not apply more than 6 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 2 applications per year.			
Potato	Tuberworm*	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	6	48 hrs.
	Loopers Aphids Beet Armyworm Leafhoppers Fall Armyworm			
	Variegated Cutworm Flea Beetles	1 1/2 (0.45 lb ai/acre)		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year. <b>Chemigation:</b> ROTAM METHOMYL 29LV INSECTICIDE may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV INSECTICIDE. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information. *Repeat applications of ROTAM METHOMYL 29LV INSECTICIDE on a 5-7 day schedule, or longer as needed, to control tuber worm populations. An application schedule of effective insecticides with different modes of action may be needed to keep foliar feeding larval populations as low as possible prior to harvest to reduce the risk of larval damage to the tubers. Failure to adequately control tuberworm larvae prior to crop senescence or vine kill increases the risk of tuber damage.			
Sorghum Including: Sudangrass (Except Sweet Sorghum)	Sorghum Webworm	1 1/2 * (0.45 lb ai/acre)	14**	48 hrs.
	Sorghum Midge - Apply when 50% bloom and 3-5 days later if needed. Fall Armyworm (Budworm) Beet Armyworm Corn Earworm Armyworm	3/4 - 1 1/2* (0.23 – 0.45 lb ai/acre)		
	Do not apply more than 3 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 2 applications per year. *Minimum of 10 gallons per acre by ground or 2 gallons per acre by air. **Do not apply within 14 days of feeding forage or cutting for hay.			
Soybeans	Green Cloverworm Velvetbean Caterpillar Mexican Bean Beetle Corn Earworm - <b>Light to Moderate infestations</b>	2/5 - 3/4 (0.11 – 0.23 lb ai/acre) (See Insect Predator section)	14 - Soybeans 3 - Forage 12 - Hay	48 hrs.
	Corn Earworm - <b>Moderate to severe infestations</b>	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)		
	Soybean Aphid	1/2 – 1 (0.15 – 0.3 lb ai/acre)		
	Beet Armyworm Saltmarsh Caterpillar Bean Leaf Beetle Fall Armyworm Thrips Silver Spotted Skipper - <b>Light to Moderate infestations</b>	3/4 – 1 (0.23 – 0.3 lb ai/acre)		

	Silver Spotted Skipper - <b>Moderate to severe infestations</b>	1 - 1 1/2 (0.3 – 0.45 lb ai/acre)		
	Do not apply more than 4.5 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 3 applications per year.			
Spinach	Alfalfa Loopers Cabbage Looper Beet Armyworm Fall Armyworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	7	48 hrs.
	Variegated Cutworm	1 1/2 (0.45 lb ai/acre)		
	Do not apply when minimum daily temp, is 32°F, or lower. Do not apply to seedlings less than 3” diameter. Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 8 applications per year.			
Sugar Beet	Beet Webworm Flea Beetles Carrion Beetles Beet Armyworm* Aphids* Western Yellowstriped Armyworm*	3/4 – 3 (0.23 – 0.9 lb ai/acre)	30 - Tops 21 - Roots	48 hrs.
	Variegated Cutworm	1 1/2 (0.45 lb ai/acre)		
	Do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 10 applications per year. *Chemigation: ROTAM METHOMYL 29LV INSECTICIDE may be applied by overhead sprinkler chemigation to control beet armyworm, aphids and western yellowstriped armyworm. For best results, use the highest listed rate of ROTAM METHOMYL 29LV INSECTICIDE. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.			
Summer Squash* Including: Crookneck squash, Straightneck squash, Scallop squash, Vegetable marrow, Spaghetti squash, Hyotan, Cucuzza, Hechima, Chinese okra, Bitter melon, Balsam pear, Balsam apple, Chinese Cucumber	Loopers Tobacco Budworm Beet Armyworm Yellowstriped Armyworm Granulate Cutworm Flea Beetles Cucumber Beetles Melon Aphid Melonworm Pickleworm Fall Armyworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1 1/2 pts. -- 1 day Over 1 1/2 pts. -- 3 days	48 hrs.
	Do not apply more than 18 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 12 applications per year. *Fruit of the Gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible cooked or raw, once picked cannot be stored, has a soft rind which is easily penetrated, and if seeds were harvested they would not germinate.			

<b>Tangelo, Tangerine</b> CA, AZ & HI only	Thrips	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	72 hrs.
	Western Tussock Moth Orange Tortrix Beet Armyworm			
	Do not apply more than 9 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year.			
<b>Tobacco</b> (Except shade)	Flea Beetle	3/4 - 1 1/2	5 - Flue cured 14 - Air or fire cured	48 hrs.
	Hornworm	(0.23 – 0.45 lb ai/acre)		
	Loopers Aphids Tobacco Budworm Fall Armyworm	1 1/2 (0.45 lb ai/acre)		
	Do not apply more than 7.5 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 5 applications per year.			
<b>Tomato</b> (Including Tomatillos*)	Tomato Fruitworm	1 1/2 – 3 (0.45 – 0.9 lb ai/acre)	1	48 hrs.
	Aphids			
	Hornworm			
	Loopers Beet Armyworm Southern Armyworm Pinworm Armyworm Fall Armyworm Brown Marmorated Stink Bug **			
	Variegated Cutworm	1 1/2 (0.45 lb ai/acre)		
	Do not apply more than 21 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 16 applications per year. *For tomatillos do not apply more than 15 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 5 applications per year. ** Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest and the use of the highest labeled rate. Use sufficient water to obtain thorough, uniform coverage. Use a minimum of 20 gallons of water per acre for ground applications and 5 gallons of water per acre for aerial applications.			
<b>Turf</b> (For use on sod farms only)	Sod Webworm (after application, sprinkle irrigate for 15 minutes)	3 (0.9 lb ai/acre) (1.1 fl. oz. per 1,000 sq. ft.)		48 hrs.
	Do not apply more than 12 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year. Do not graze or feed.			
<b>Wheat</b> (States of Idaho,	Armyworms Cereal Leaf Beetle* Aphids**	3/4 - 1 1/2 (0.23 – 0.45 lb ai/acre)	7	48 hrs.

Oregon, and Washington only)	Brown Marmorated Stink Bug ***	1 1/2 (0.45 lb ai/acre)	
	<p>Do not apply more than 6 pints of ROTAM METHOMYL 29LV INSECTICIDE per acre per year. Do not make more than 4 applications per year.</p> <p><b>Chemigation:</b> ROTAM METHOMYL 29LV INSECTICIDE may be applied by overhead sprinkler chemigation. For best results, use the highest listed rate of ROTAM METHOMYL 29LV INSECTICIDE. Apply in 0.1 to 0.2 inches of water per acre. See CHEMIGATION section for more information.</p> <p><b>*Cereal leaf beetle:</b> ROTAM METHOMYL 29LV INSECTICIDE can provide contact ovicidal effect on cereal leaf beetle eggs when applied according to label directions. Application should be timed to correspond with the appearance of newly laid eggs or in anticipation of egg hatch to achieve maximum ovicidal effect. Use on this pest stage (egg) is not currently registered in California.</p> <p><b>**Aphids:</b> For aphid control, crop must be actively growing and not under stress from adverse environmental conditions (such as, extreme temperatures or drought). Applications on Russian wheat aphid need to begin when aphid population is low (&lt;10 adults per stem).</p> <p><b>***</b> Brown marmorated stink bugs are very mobile pests. They may reinfest the treated area quickly. If another application is needed prior to the minimum application interval, use a different insecticide. Since this product is a fastacting contact insecticide, best results follow direct spraying of the target pest. Use sufficient water to obtain thorough, uniform coverage. Use a minimum of 20 gallons of water per acre for ground applications and 5 gallons of water per acre for aerial applications.</p>		



## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Do not subject to temperatures below 32°F. Store product in original container only. Not for use or storage in or around the home.

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

### CONTAINER HANDLING:

Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

**Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons): Nonrefillable container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Nonrefillable Plastic and Metal Containers (Capacity Greater Than 5 Gallons): Nonrefillable container. Do not reuse or refill this container.** Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. 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, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container.** Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**All Refillable Containers: Refillable container. Refilling Container:** Refill this container with ROTAM METHOMYL 29LV INSECTICIDE containing methomyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. **Disposing of Container:** Do not reuse this container for any other purpose other than refilling (see proceeding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Do not transport if container is damaged or leaking.

**In the event of a major spill, fire or other emergency, call CHEMTREC Day or Night, 1-800-424-9300.**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Albaugh, LLC. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Albaugh, LLC and Seller harmless for any claims relating to such factors.

Albaugh, LLC 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, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Albaugh, LLC, and Buyer and User assume the risk of any such use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW ALBAUGH, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

To the extent consistent with applicable law, Albaugh, LLC or Seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ALBAUGH, LLC AND 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 THE PRODUCT OR, AT THE ELECTION OF ALBAUGH, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Albaugh, LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of Albaugh, LLC.

[OPTIONAL MARKETING GRAPHICS]



**Manufactured [for] [by]:**

Albaugh, LLC  
 1525 NE 36th Street  
 Ankeny, IA 50021

**{{[LABEL HISTORY]}**  
[(Not included in final printed labeling)]

File Name	Version Mark	Comment
083100-00027.20241125.DRAFT	112524	Label Update
083100-00027.20250527.DRAFT	052725	(e) label revisions
083100-00027.20250618.DRAFT	061825	(e) label revisions
083100-00027.20250625.DRAFT	062525	(e) label revisions
083100-00027.20250711.DRAFT	071125	(e) label revisions
083100-00027.20250723.DRAFT	072325	(e) label revisions

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