

PM 14

10163-220

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0080. Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number

246423

Application for Pesticide - Section I

1. Company/Product Number Gowan Company / 10163-220	2. EPA Product Manager Rob Forrest	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Gowan Company / Metasystox-R	PM# 14	
5. Name and Address of Applicant (Include ZIP Code) Gowan Company P.O. Box 5569 Yuma, AZ 85366-5569 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Per FR Notice 95-2 Section A(8) Gowan Company notifies the agency that we are adding bilingual language to the referenced label.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Cindy Baker	Title Registration Specialist	Telephone No. (Include Area Code) (520) 783-8844
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamp)
2. Signature Cindy Baker	3. Title Registration Specialist	
4. Typed Name Cindy Baker	5. Date 9/20/96	

2 7 6

RESTRICTED USE PESTICIDE

Due to Reproductive Effects

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 is defined as the certified applicator being physically present during mixing, loading, equipment repair, and equipment cleaning. Certified applicators must ensure that all persons involved in these activities under their direct supervision are informed of the precautionary statements.

Metasystox-R®

SPRAY CONCENTRATE SYSTEMIC INSECTICIDE

FOR EFFECTIVE SYSTEMIC CROP PROTECTION

ACTIVE INGREDIENT:

S-[2-(Ethylsulfanyl)ethyl] O,O-dimethyl phosphorothioate

INERT INGREDIENTS:

% By Wt.

25.0%

75.0%

TOTAL 100.0%

Contains 2 lbs. S-[2-(Ethylsulfanyl)ethyl] O,O-dimethyl phosphorothioate per U.S. gallon
(This product contains aromatic petroleum distillates.)

-STOP-

READ THE LABEL BEFORE USE

KEEP OUT OF REACH OF CHILDREN

WARNING-AVISO

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.)

FLAMMABLE! KEEP AWAY FROM HEAT AND OPEN FLAME

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING—Causes moderate eye irritation. May be fatal if swallowed, inhaled, or absorbed through the skin. Prolonged or frequently repeated skin contact causes allergic reactions in some individuals. Avoid contact with eyes. Do not get on skin or clothing. Do not breathe spray mist.

Avoid contamination of feed or food. **KEEP OUT OF REACH OF CHILDREN.**

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 F on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Coveralls worn over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Butyl Rubber or Nitrile Rubber or Viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

Discard clothing and 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 CONTROLS STATEMENTS

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

Human flaggers must be in enclosed cabs. 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 170.240(d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

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

NOTIFICATION
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DECLARACIONES DE PRECAUCION

PELIGROS PARA HUMANOS Y ANIMALES DOMESTICOS

ADVERTENCIA—Causa irritación moderada en los ojos. Puede ser fatal si es tragado, inhalado, o absorbido a través de la piel. El contacto prolongado y frecuente con la piel puede causar reacciones de alergia en algunos individuos. Evite el contacto con los ojos. Evite el contacto con la piel y la ropa. No inhale los vapores. Evite la contaminación de forrajes y alimentos.

MANTENGASE FUERA DEL ALCANCE DE LOS NIÑOS.

EQUIPO DE PROTECCION PERSONAL (EPP)

Algunos materiales que son químicamente resistentes a este producto están listados abajo. Si usted quiere más opciones siga las instrucciones para categoría F de la tabla de EPA sobre categorías de resistencia química.

Aplicadores y otros manejadores deben vestir:

- Mameluco (cubre-todo) sobre camisa de manga larga y pantalón largo
- Guantes resistentes a productos químicos como lo son de barrera laminada, hule (butilado o nitrilo) o vitón
- Calcetines (medias) y zapatos resistentes a productos químicos
- Protección para los ojos.
- Sombrero o gorro resistente a productos químicos para exposiciones o aplicaciones
- Delantal químico-resistente para limpiezas de equipo
- Para exposición (aplicación) en áreas cerradas, usar mascarilla (respirador) provista de filtro para vapores orgánicos con un pre-filtro para plaguicidas (aprobado por MSHA/NIOSH con #TC-23C), o un equipo de respiración tipo "canister" aprobado para plaguicidas (aprobado por MSHA/NIOSH con #TC-14G).
- Para exposiciones (aplicación) en áreas abiertas, usar mascarilla (respirador) con filtros para polvo y niebla (aprobado por MSHA/NIOSH con #TC-21C)

Eliminar la ropa y otros materiales absorbentes que han sido empapados o considerablemente contaminados con el producto concentrado. No reuse estos materiales o ropa. Siga las instrucciones del fabricante para la limpieza y mantenimiento del Equipo de Protección Personal. Si no tiene estas instrucciones, utilice detergente y agua caliente para el lavado. Mantenga y lave el EPP por separado de cualquier otra ropa.

DECLARACION DE CONTROLES DE INGENIERIA

Cuando los manejadores usan sistemas cerrados, cabinas cerradas, o aviones de una manera que reúnan los requerimientos especificados en la Norma de Protección para Trabajadores de plaguicidas agrícolas [40 "CFR" 170.240(d)(4-6)], los requerimientos de EPP para el manejador pueden ser reducidos o modificados conforme se especifica en la Norma (WPS). Los bandereros deben estar protegidos en cabinas cerradas. Las cabinas cerradas deben ser usadas de una manera que reúnan los requerimientos listados en la Norma de Protección para Trabajadores "WPS" de plaguicidas agrícolas [40 "CFR" 170.240(d)(4-6)]. Los requerimientos de EPP para los manejadores pueden ser reducidos o modificados como es especificado en los "WPS".

RECOMENDACIONES DE SEGURIDAD PARA USUARIOS

- Lavar las manos antes de comer, beber, masticar chicle, fumar, o usar el baño.
- Quitar la ropa inmediatamente si ha habido contacto con el plaguicida. Bañarse bien y ponerse ropa limpia.
- Quitarse el Equipo de Protección Personal inmediatamente después de usar este producto. Lavar los guantes por fuera antes de quitárselos. Tan pronto como sea posible lavarse y cambiar su ropa de trabajo por ropa limpia.

NET CONTENTS _____ GALLON(S)

Gowan

3.9.6

STATEMENT OF PRACTICAL TREATMENT

Organophosphate Insecticide

IF IN EYES, flush with plenty of water. Call a physician if irritation persists. **IF SWALLOWED**, vomiting should be induced. Administer water freely and induce vomiting by giving one dose (½ oz. or 15 ml.) of syrup of ipecac. If vomiting does not occur within 10-20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately.

If poisoning occurs, obtain prompt medical aid.

NOTE TO PHYSICIAN: May cause cholinesterase depression. Atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

PHYSICAL AND CHEMICAL HAZARDS

Flammable. Keep away from heat and open flame.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. The 48 hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year. 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 worn over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Butyl Rubber or Nitrile Rubber or Viton
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

REQUISITOS PARA USO AGRICOLA

Solamente utilice este producto conforme las instrucciones en la etiqueta y conforme a la Norma de Protección del Trabajador, 40 "CFR" Parte 170. Este norma contiene los requisitos para la protección de trabajadores agrícolas en fincas, bosques, invernaderos, y manejadores de plaguicidas agrícolas. Contiene los requisitos para capacitación, descontaminación, notificación, y ayuda de emergencia. También contiene instrucciones específicas y excepciones pertinentes para lo mencionado en esta etiqueta sobre Equipo de Protección Personal (EPP), y intervalo de entrada restringida. Los requisitos en este cuadro sólo son aplicables a los usos del producto que están contenidos en la Norma de Protección del Trabajador.

No entre ni permita la entrada de trabajadores a las áreas tratadas durante el intervalo de entrada restringida, (IER) de 48 horas. El IER de 48 horas se incrementa a 72 horas en áreas abiertas donde el promedio anual de lluvia es inferior a 25 pulgadas.

El EPP necesario para la entrada temprana a las áreas tratadas que está permitido bajo la Norma de Protección del Trabajador y que involucra el contacto con cualquier material tratado, por ejemplo plantas, suelo o agua, es:

- Mameluco (cubre-todo) sobre camisa de manga larga y pantalón largo
- Guantes resistentes a productos químicos, así como protector laminado, huile (butilado o nitrilo) y vitón
- Calcetines (medias) y zapatos resistentes a productos químicos
- Sombrero o gorro resistente a productos químicos para exposiciones o aplicaciones

IMPORTANT: Read the entire Directions and Conditions of Sale before using METASYSTOX-R Spray Concentrate, Systemic Insecticide.

METASYSTOX-R Systemic Insecticide penetrates by absorption and is translocated in the plant. The best time to apply METASYSTOX-R Spray Concentrate is early morning or evening, especially when crops such as alfalfa and cotton are in bloom. This practice will minimize the possibility of beneficial pollinating insects, including honeybees, coming into contact with the spray.

MIXING

METASYSTOX-R Spray Concentrate forms an emulsion when diluted with water and is suitable for use in all power-operated ground sprayers and aircraft sprayers. To mix with water, pour the required amount of METASYSTOX-R Spray Concentrate into full amount of water and then agitate. **CLOSED SYSTEMS FOR MIXING AND LOADING MUST BE USED FOR ALL AERIAL APPLICATION AND CHEMIGATION SYSTEMS.** Closed systems for mixing and/or loading this product must be capable of removing the pesticide from the shipping container, rinsing the container, and transferring the pesticide and rinsate into mixing tanks and/or application equipment. Protective clothing and equipment specified in the pesticide labeling must also be used when mixing and/or loading this pesticide.

DOSAGE

Use specified dosage of METASYSTOX-R Spray Concentrate in the amount of water necessary to give complete coverage of foliage but in no case use less than one gallon of water per acre. The type of equipment used will determine the concentration required.

SPRAYING

Work to windward. When low volumes of spray are applied, complete coverage and thorough application are essential for the most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service for specific use information and for State regulations which may contain additional restrictions or requirements.

SPRAY DRIFT MANAGEMENT

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.

The following spray drift management requirements must be followed to avoid off-target movement from aerial applications:

- Do not apply within 150 feet by air or 100 feet by ground of an unprotected person or occupied building.
- All application equipment must be properly maintained and calibrated using appropriate carriers.
- The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The boom length must not exceed ¾ of the wing or rotor length (i.e., the distance of the outermost nozzles on the boom must not exceed ¾ the length of the wingspan or rotor).
- Nozzles must always point backward and never be pointed downwards more than 45 degrees.
- Do not apply at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
- Make applications when wind velocity favors on-target product deposition (approximately 3-10 mph). Do not apply when gusts or sustained winds exceed 15 mph.

USE IN CHEMIGATION SYSTEMS

Types of Irrigation Systems: Apply METASYSTOX-R Spray Concentrate only through sprinkler (including center pivot, lateral move, side roll, overhead solid set or low pressure irrigation systems). Do not apply METASYSTOX-R Spray Concentrate through any other type of irrigation system. **CLOSED SYSTEMS FOR MIXING AND LOADING MUST BE USED FOR ALL CHEMIGATION SYSTEMS.**

GENERAL DIRECTIONS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS

Uniform Water Distribution and System Calibration: The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

The system must be calibrated to uniformly apply the rates specified for chemigation application for specific crops. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Chemigation Monitoring: A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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

REQUIRED SYSTEM SAFETY DEVICES

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

USING WATER FROM PUBLIC WATER SYSTEMS

DO NOT APPLY METASYSTOX-R SPRAY CONCENTRATE THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

METASYSTOX-R Spray Concentrate may be applied through any of the recommended types of irrigation systems which may be supplied by a public water system only if the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet, and the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally-closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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

AGITATION

For application of METASYSTOX-R Spray Concentrate alone, a chemical supply tank is not necessary for premixing since METASYSTOX-R Spray Concentrate mixes well with water in the irrigation line. If a chemical supply tank is used, for application of METASYSTOX-R Spray Concentrate alone or in combination with other chemicals, constant strong mechanical or hydraulic agitation must be maintained in the chemical supply tank during the entire period of application.

CHEMICAL SUPPLY TANK DILUTION

If a chemical supply tank is used, you must determine the required amounts of METASYSTOX-R Spray Concentrate and water to mix in the tank.

The amount of METASYSTOX-R Spray Concentrate needed equals the number of pints of METASYSTOX-R Spray Concentrate to be applied per acre multiplied by the number of acres to be chemigated.

The amount of emulsion needed equals the gallons of emulsion delivered per hour by the injection pump multiplied by the number of hours chemigation will take place.

The amount of water needed equals the amount of emulsion needed minus the amount of METASYSTOX-R Spray Concentrate needed.

For example, if you want to apply 1 pint of METASYSTOX-R Spray Concentrate per acre to 130 acres in 20 hours and your injection pump delivers 15 gallons per hour, you need 1 pint METASYSTOX-R Spray Concentrate per acre X 130 acres = 130 pints or 16.25 gallons of METASYSTOX-R Spray Concentrate. And, you need, 15 gallons per hour X 20 hours = 300 gallons of emulsion, minus 16.25 gallons of METASYSTOX-R Spray Concentrate = 283.75 gallons of water.

Cleaning the Chemical Injection System: In order to accurately apply pesticides, the chemical injection system must be kept clean, free from chemical or fertilizer residues and sediments. Refer to your owners manual or ask your equipment supplier for the cleaning procedure for your injection system.

Flushing the Irrigation System: At the end of the application period, allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

SPRINKLER IRRIGATION SYSTEMS

All directions and requirements listed under the GENERAL DIRECTIONS AND REQUIREMENTS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS section of this label must be followed for sprinkler irrigation systems. In addition, the following directions apply to sprinkler irrigation systems.

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

It is recommended that nozzles in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas.

Center-Pivot and Automatic-Move Linear Systems: Inject the specified dosage per acre continuously for one complete revolution of move of the system. DO NOT USE END GUNS. The system should be run at maximum speed.

Solid Set and Manually Controlled Linear Systems: Injection should be during the last 30-60 minutes of the regular irrigation period or as a separate 30-60 minute application not associated with a regular irrigation. DO NOT USE END GUNS.

Low Pressure Irrigation Systems (Mini-sprinkler systems only): All directions and requirements listed under the GENERAL DIRECTIONS AND REQUIREMENTS FOR ALL RECOMMENDED TYPES OF IRRIGATION SYSTEMS section of this label must be followed for low pressure mini-sprinkler systems. In addition, the following directions apply to low pressure irrigation system.

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

Injection should be during the last 30-60 minutes of a regular irrigation period or as a separate 30-60 minute application not associated with a regular irrigation.

For systems which do not wet the entire crop area, apply proportionately less than the specified broadcast rate per acre based on the area wetted. For example, if 50% of the crop area is wetted by the irrigation system, apply one-half of the specified broadcast rate per acre.

PREHARVEST INTERVAL

The required days between the last application and harvest are given in () after each crop name.

RECOMMENDED APPLICATIONS

FIELD CROPS

CROP	INSECT	PINTS	REMARKS
COTTON (Except California) (14)	Aphids, Thrips, Fleahoppers	1/2-1	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre.
	Mites	1 1/2-3	
COTTON (California only)	Aphids, Mites, Lygus Bugs	1 1/2-2	For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
<ul style="list-style-type: none">Do not apply more than 3 times per season nor within 14 days of picking.Do not graze or feed gin trash to dairy or meat animals.			
CORN (Sweet only) (7-one application; 21-two or three applications)	Aphids, Leafhoppers, Mites, Thrips, Corn Root-worm Beetles	1 1/2-2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For control of corn rootworm beetles, apply as needed in accordance with established economic thresholds in your locality. When using one application per season, do not apply within 7 days of harvest of corn, or within 7 days of foraging or harvest of corn fodder. When using two or three applications per season, do not make the last application within 21 days of harvest of corn or within 21 days of foraging or harvest of corn fodder. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
<ul style="list-style-type: none">Do not apply more than three times per season.			
PEPPERMINT, SPEARMINT (14)	Aphids, Mites	3	Apply specified dosage in at least 20 gals. of water per acre with ground equipment. For established infestations, make 2 applications 10-14 days apart. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.

5.7.6

FIELD CROPS

CROP	INSECT	PINTS	REMARKS
SUGAR BEETS (30)	Aphids, Leafhoppers, Mites	1 1/2-3	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than twice per season. Do not harvest beets or use beet tops for feed or forage within 30 days of last application.

SEED FIELD CROPS

ALFALFA, CLOVER (21)	Aphids, Leafhoppers, Mites, Thrips, Lygus bugs	1 1/2-2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. Chaff from seed crop may be used for feed or forage, but do not cut green crop for these purposes. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than twice per season.
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NON-BEARING FRUITS

APPLES, APRICOTS, CHERRIES, CRABAPPLES, GRAPES, NECTARINES, PEACHES, PLUMES, PRUNES, QUINCES (12 months)	Aphids, Mites	1-1 1/2	As a full coverage spray, apply specified dosage in 100 gals. of water on non-bearing trees; but do not exceed 300 gals. of finished spray per acre per application. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than 3 times per season. Do not apply to trees that will bear fruit within the next 12 months.
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VEGETABLES

BEANS (Lima) (21)	Leafhoppers, Mites, Lygus bugs (California only)	2	Apply specified dosage in at least 4 gals. of water per acre. Three applications may be made per picking season with the last application no later than 21 days before harvest. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not graze or cut treated vines for feed or forage within 21 days of application.
BROCCOLI, (7) BRUSSELS SPROUTS, (10) CAULIFLOWER (7)	Aphids	1 1/2-2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than 3 times per season.
CABBAGE (Includes tight-heading varieties of Chinese cabbage) (7)	Aphids, Thrips	1 1/2-3	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than 3 times per season.

VEGETABLE CROPS

CROP	INSECT	PINTS	REMARKS
CUCUMBERS (3)	Aphids, Mites	1 1/2-2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than twice per season.
EGGPLANT (7)	Aphids, Mites	2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than 3 times per season.
HEAD LETTUCE (PHI: see text)	Aphids, Mites	1 1/2-2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. A maximum of 3 applications may be made per season. The following preharvest intervals based on number of applications apply only to California's spring and summer crops: 1 application—14 days 2 applications—21 days 3 applications—28 days All crops in Arizona and California's fall and winter crops require a 28-day PHI (regardless of the number of applications). All other States require a 21-day PHI. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
PEPPERS (3)	Aphids	2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than twice per season.
PUMPKINS (14), WINTER SQUASH (14), SUMMER SQUASH (3)	Aphids	1 1/2-2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than once per season.
MELONS			
MUSKMELONS, (Cantaloupes) OTHER MELONS (14)	Aphids, Mites	1 1/2-2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label. <ul style="list-style-type: none"> Do not apply more than 3 times per season.

MELONS

CROP	INSECT	PINTS	REMARKS
WATERMELONS (7)	Aphids, Mites	1 1/2-2	Apply specified dosage per acre in sufficient water for complete coverage but not less than one gallon per acre. For application by irrigation systems, apply specified dosage per acre. Follow all directions given under the CHEMIGATION section of this label.
<ul style="list-style-type: none"> Do not apply more than twice per season nor. 			

NUTS

FILBERTS (Oregon & Washington only) (105)	Aphids	1 pint per 10 trees (average 4 1/2" diameter)	Apply either undiluted or diluted with an equal volume of water. For undiluted application apply 1/3 fluid ounce of product per inch of trunk diameter. For diluted application apply 2/3 fluid ounce of mixture per inch of trunk diameter. One pint of product is sufficient to treat 10 trees averaging 4 1/2 inches in diameter when applied diluted or undiluted. Apply specified dosage with a paint brush or low pressure sprayer in a band completely around the trunk. On trees with extremely short trunks it may be necessary to treat bases of scaffold limbs in order to apply the correct dosage. Width of the treated band will vary with trunk diameter.
<ul style="list-style-type: none"> Do not apply more than once per season. Do not use on heavily stressed trees or on young trees with trunk diameters less than 2 inches. 			
WALNUTS (30)	Aphids, Mites	1 1/2	As a full coverage spray, apply specified dosage in 100 gals. of water; but do not exceed 400 gals. of finished spray per acre per application.*
<ul style="list-style-type: none"> Do not apply more than once per season. 			

* This dosage of METASYSTOX-R Spray Concentrate is calculated for conventional sprayers. When lower volumes of spray are applied per acre, as with low-pressure, low-volume, airplane or mist-type equipment, increase the concentration of METASYSTOX-R Spray Concentrate in the spray mixture in order to apply amount of METASYSTOX-R Spray Concentrate per acre equivalent to a full coverage spray but in no case less than one gallon of water per acre.

RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not treat food crops grown in the greenhouse.

STORAGE AND DISPOSAL

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

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

CONTAINER DISPOSAL: Non-refillable Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities by burning. If burned, stay out of smoke.

STORAGE: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store away from heat and open flame. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent run-off. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE),

CALL CHEMTREC (800) 424-9300.

For other product information, contact Gowan Company or see Material Safety Data Sheet.

NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

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