

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND FOXIC SUBSTANCES

JAN - 9 2008

Mr. Scott Baker Registration Manager Loveland Products, Inc. P.O. Box 1286 Greeley, Colorado 80632-1286

SUBJECT: Notification of Removal of California Restrictions

EPA Registration Number: 34704-978 Date of Submission: November 12, 2007

Dear Mr. Baker:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated, November 12, 2007 for the product, Tombstone Helios Insecticide. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

Linda Arrington

Notifications & Minor Formulations Team Leader

Registration Division (7505P)

Office of Pesticide Programs



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Mr. Scott Baker Registration Manager Loveland Products, Inc. P.O. Box 1286 Greeley, Colorado 80632-1286

SUBJECT: Notification of Removal of California Restrictions

EPA Registration Number: 34704-978 Date of Submission: November 12, 2007

Based on your email letter of January 4, 2008, this letter rescinds the Agency letter of December 18, 2007, for the subject notification. The product name should have been Tombstone Helios Insecticide.

We apologize for any confusion this might have caused. If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

Linda Arrington

Notifications & Minor Formulations Team Leader

Registration Division (7505P) Office of Pesticide Programs

Please re	ead instru	ctions of	reverse	<u>before c</u>	ompietina .	form

Registration
Amendment
Other

OPP Identifier Nu

<b>\$EPA</b>	Environmental Prote	ection Age	ncy	_	registrati Amendmo		
	Washington, D	C 20460		V (	Other		
	Applic	cation for I	Pesticide - Sec	tion I		-	
1. Company/Product Number 34704-978	·	,	2. EPA Product Man George LaRocca	-		r 1	posed Classification
4. Company/Product (Name) Tombstone Helios Inse	cticide		PM# 13				Treaticists.
5. Name and Address of App	licant (Include ZIP Code)		6. Expedited Rev	reiw. I	n accordanc	e with	FIFRA Section 3(c)(3)
Loveland Products, In	C.			is cimila	ar or identica	al in cor	moosition and labeling
P.O. Box 1286	620 4006		to: EPA Reg. No		<u>&gt;</u>		
Greeley, Colorado 800	is a new address						
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Amendment - Explain	below.		Final printe Agency let "Me Too"	d labels ter detec Applicati	in repsonse t j j jon.	°NO	TIFICATION
Notification - Explain			Other - Exp				EC 1 8 2007
Explanation: Use addition	al page(s) if necessary. (For s	section I and Se	ction II.)				· · · · · · · · · · · · · · · · · · ·
•	val of California restri atements removed ar		_				•
		Sect	ion - III				
1. Material This Product Will		<del></del>			· · · · · · · · · · · · · · · · · · ·		
Child-Resistant Packaging	Unit Reckaging	Water	Soluble Packaging	1	2. Type of C	nteiner	•
Yes	Yes		Yes			Metal Plastic	
No No		er If "You	No No		F 1	Glass Paper	
* Certification must be submitted	If "Yes" No. p Unit Packaging wgt. conta	iner Docka	No. per ge wgt contains		·	Other (S	pecify)
3. Location of Net Contents	nformation 4. Size	(s) Retail Contai	ner	5. Loca	ues of Label	Directio	ns
Label C	conter	1 g	al	<u> </u>		<u></u>	
6. Manner in White Label is	Affixed to Product	Lithograph Paper glued Stenciled	Othe	r			
		Sect	ion - IV				
1. Contact Point (Complete	items directly below for identi	fication of indiv	idual to be contacted,	if neces	sary, to proc	ess this	application.)
Name Scott Baker		Title Registra	ition Manager			<b>elephone</b> 170-347-1	a Kั้งเปีเก๋ย์ude Area Code) 1468
	Cer	tification				(· ¢	6. Date Application
	ments I have made on this for y knowlingliÿ false or misleadi law.						Received (Stamped)
2. Signature		3. Title Registra	tion Manager			ر د ر د	, , , , , , , , , , , , , , , , , , ,
4. Typed Name		5. Date					
Scott Baker		1			07		1 *** 6 (



Performance

Quality

November 12, 2007

Document Processing Desk (7504P) U.S. Environmental Protection Agency Room S4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202

Subject:

Tombstone Helios - EPA Reg. No. 34704-978

Loveland Products, Inc. is submitting an application by notification to remove the California restrictions.

- 1. Application for Registration.
- 2. 5 copies of the product Label.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please contact me at 970-347-1468 or by e-mail: <a href="mailto:scott.baker@uap.com">scott.baker@uap.com</a> if there are any questions or comments concerning this submission.

Sincerely,

Vings Prom

Scott Baker Registration Manager Enclosures NOTIFICATION
DEC 1 8 2007







November 12, 2007

Document Processing Desk (7504P) U.S. Environmental Protection Agency Room S4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202

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Sincerely,

Scott Baker

Registration Manager

Enclosures

# Emulsifiable Pyrethroid Insecticide For control of certain insect pests on field, vegetable, tree and vine crops.

**ACTIVE INGREDIENT:** 

Cyfluthrin

Contains 2 lb Cyfluthrin per gallon. (This product contains aromatic petroleum distillates.)

# 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.)

#### **FIRST AID**

If in eyes:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> </ul>	
	Call a poison control center or doctor for treatment advice.	
If swallowed:		
	<ul> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> </ul>	
	Do not give any liquid to the person.	
	Do not give anything by mouth to an unconscious person.	
If on skin	Take off contaminated clothing.	
or clothing:	Rinse skin immediately with plenty of water for 15 to 20 minutes.	
_	Call a poison control center or doctor for treatment advice.	
If inhaled:	Move person to fresh air.	_
	If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.     Call a poison control center or doctor for further treatment advice.	

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.

Note to Physician: ANTIDOTE – No specific antidote is available. Treat symptomatically, Published data indicate vitamin E acetate can prevent and/or mitigate symptoms of paresthesia caused by synthetic pyrethroids. Contains petroleum distillates. Vomiting may cause aspiration pneumonia.

EPA REG. NO. 34704-978 EPA EST. NO. 34704-MS-1

**NET CONTENTS 1 GAL. (3.78 L)** 

11-

022707 V3 10O07

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING. Causes substantial but temporary eye injury. Do not get in eyes, skin or on clothing. Wear protective eyewear such as goggles, face shield or safety glasses. Harmful if swallowed or inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

Do not contaminate feed or food. Keep out of reach of children.

Personal Protective Equipment: Some materials that are chemical-resistant to this

product are listed below. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate or viton, shoes plus socks, and protective evewear.

Discard clothing and other absorbent materials that have been drancfied or heavily contaminated with this products 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 daundry.

#### **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.

#### **USER SAFETY RECOMMENDATIONS**

User should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash ທຽດວັດປຸກ and put on clean clothing.

Remove PPE immediately after handling this product. Wash the cuts de of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

# **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions tavor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment area. Additional information may be obtained by consulting your Cooperative Extension Service.

#### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

#### **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 you 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 exemptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is: Coveralls, chemical-resistant gloves, such as barrier laminate or viton, shoes plus socks, and protective eyewear.

NOTIFICATION
DEC 1 8 2007

# STORAGE AND DISPOSAL

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

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

Handle open container in a manner as to prevent spillage. If container is leaking, invert container to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. 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 below. In spill or leak incidents, keep unauthorized people away.

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 CONTAINER: Triple rinse (or

CONTAINER DISPOSAL — NON-REFILLABLE CONTAINER: 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.

CONTAINER DISPOSAL - RETURNABLE/REFILLABLE SEALED CONTAINER: Do not rinse container. Do not break seals. Replace the dust cover/cap and return container, intact to point of purchase.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300.

Tombstone Helios may be used for control of a broad spectrum of insect pests by contact action. Because of this contact activity, good spray coverage of the crop is needed for the highest level of control.

#### Insect Resistance Statement

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or State agricultural authorities for details. If resistance to this product develops in your area, this product alone may not continue to provide adequate control of resistant pests. If poor performance cannot be attributed to improper application, extreme weather conditions, etc., a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor/state Extension agent for the best alternative method of control in your area. Consult your state Cooperative Extension Service agent or agricultural advisor for insect resistance management strategies and recommended insect control methods in your area.

#### **APPLICATION GUIDELINES**

For all insects, timing of application should be based on careful scouting and local economic thresholds.

Foliar Spray Application

Foliar applications may be made using properly calibrated ground sprayers, fixed- or rotary-winged aircraft or through properly designed, sprinkler-type, chemigation equipment (See Chemigation Application directions below). Thorough and uniform coverage of plants, with direct contact of the spray mixture to the target pests, is required for satisfactory control.

Avoid application procedures where thorough coverage of plant is not possible. Applications made with less than thorough coverage may result in slower activity and/or less overall control from a single application than an application made with higher gallonages. See general, Spray Dritt Reduction Management, section below for application guidelines on minimizing drift from all application methods.

Ground applications should be made in a minimum of 10 gallons/A.

Aerial applications should be made in a minimum of 2 gallons/A, however 5 gallons/A are recommended. See crop specific gallonage requirements. Aerial applications made to dense canopies may not provide sufficient coverage of lower leaves to provide pest control. Higher labeled rates of Tombstone Helios may be necessary for aerial applications.

Chemigation applications (See Chemigation Application directions below) should be made as concentrated as possible. For best results apply at 100% input/travel speed, for center pivots or 0.10 inch (2,716 gallons) up to 0.15 inch (4,079 gallons) of water/A, for other systems. Higher labeled rates of Tombstone Helios may be necessary for chemigation applications.

Chemigation Application

Types of Irrigation Systems: Tombstone Helios helios may be applied through sprinkler type irrigation systems, only. These types include; center pivot, lateral move, or solid set irrigation systems. Do not apply Tombstone Helios through any other type of irrigation system.

Injection for Chemigation: Inject the specified dosage of Tombstone Helios into the imigation main, water stream: (1) through a constant flow, metering device; (2) into the center of the main line flow via a pitot tube or equivalent; (3) at a point ahead of at least one, right-angle turn in main stream flow such that thorough mixing with the irrigation water is ensured.

Uniform Water Distribution and System Calibration: The irrigation system must provide uniform distribution of Tombstone Helios treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in or on the crop can result from non-uniform distribution. The system must be calibrated to uniformly distribute the rates specified for chemigation application to specific crops. If you have questions about calibration, contact your Cooperative Extension Service agent, 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.

Required Injection and Sprinkler 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 back-flow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection. 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/engine stops, or in cases where there is no water pump, when water pressure decreases to the point where pesticide distribution is adversely affected. Injection systems must use a metering pump or equivalent, such as a positive displacement injection pump (e.g., diaphragm pump, venturi injection) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Public Water Systems: DO NOT APPLY TOMBSTONE 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. Tombstone Helios may be applied through any of the recommended types of irrigation systems that 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 flow 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. 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 same safety requirements as for any other type of water supply and include the same safety devices.

Chemical Supply Tank Dilution and Agitation: For injection of Tombstone Helios use a chemical supply tank for pre-mixing Tombstone Helios with either, water or non-emulsifiable oil before injecting mixture into the irrigation line. Dilution ratio should be at Helios at 4 parts of either water/or non-emulsifiable oil, to 1 part Tombstone Helios. If necessary, constant mechanical or hydraulic agitation should be maintained in the chemical supply tank during the entire period of application. Determine the required amounts of Tombstone Helios and either water or non-emulsifiable oil, to mix in the tank. The amount of Tombstone Helios needed equals the number of fluid ounces of Tombstone Helios 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 either water or non-emulsifiable oil needed equals the amount of emulsion needed minus the amount of Tombstone Helios needed.

Posting Requirements: 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 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 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 printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until loliage 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 PESTICIDES IN IRRIGATION WATER.

This sign is in addition to any sign posted to comply with the Worker Protection Standard.

Cleaning the Chemical Injection System: In order to apply pesticides accurately, the chemical injection system must be kept clean; free from chemical or fertilizer residues and sediments. Refer to your owner's 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.

Center-Pivot and Automatic-Move Linear Systems: Inject the specified dosage per acre continuously for one complete revolution (center pivot) or move of the system. The system should be run at maximum speed. 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. The use of END GUNS is NOT recommended. End guns that provide uneven distribution of treated water can result in crop injury, lack of effectiveness, or illegal pesticide residues in or on the crop.

Solid Set and Manually Controlled Linear Systems: Injection should be during the last 30 to 60 minutes of a regular impation period or as a separate 30 to 60 minute application not associated with a regular irrigation.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.

# Spray Drift Reduction Management

Do not apply when wind speed favors drift beyond the area intended for treatment. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

#### **Buffer Zone Requirements**

Ground, Foliar Applications: Do not apply by ground within 25 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish tarm ponds. Increase the buffer zone to 450 feet when an ultra low volume (ULV) application is made.

Aerial Applications: Do not apply by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes or natural ponds; estuaries and commercial fish farm ponds. The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of the wing span or rotor diameter.

Importance of Droplet Size: An important factor influencing drift is droplet size. Small droplets (<150 to 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by avoiding excessive spray boom pressure. Spray should be released at the lowest possible height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

Wind Speed Restrictions: Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size, caropy and equipment specifications determine drift potential at any given wind speed. Do not apply when wind speeds are greater than 15 mph and avoid gusty and windless conditions. Avoiding applications when wind direction is toward the aquatic area can reduce risk of exposure to sensitive aquatic areas.

Restrictions During Temperature Inversions: Do not make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small, suspended
droplets to remain close to the ground and move laterally in a concentrated cloud.
Temperature inversions are characterized by increasing temperature with altitude and
are common on nights with limited cloud cover and light to no wind. They begin to form
as the sun sets and often continue into the morning. Their presence can be indicated by
ground tog. However, if fog is not present, the movement of smoke from a ground source
can also identify inversions. Smoke that layers and moves laterally in a concentrated
cloud (under low wind conditions) indicates an inversion, while smoke that moves
upward and rapidly dissipates indicates good vertical mixing.

#### **Runoff Management**

Do not cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area. Do not apply if soil is saturated with water. Do not apply under conditions that favor drift from runoff. Do not apply in the rain.

#### **FIELD CROPS**

# Recommended Applications - Tombstone Helios

For all crops, apply specific dosage of Tombstone Helios at early threshold for target pest, as population begins to develop. Degree of control or suppression of additional labeled pests will be determined, in part by the stage of pest development at application and infestation level of those pests.

Application timing should be based on local economic thresholds. Tombstone Helios may be applied before, during, or after planting. Use the higher rates for moderate to heavy insect pressure. Lower rates are generally adequate for low to moderate insect pressure but require careful scouling and may require more frequent application.

Tombstone Helios is an Emulsifiable Concentrate formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance. See application recommendations at the beginning of each section: FIELD CROPS; VEGETABLE CROPS; TREE and VINE CROPS.

AI FAI FA

ALFALFA Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Alfalfa looper	0.8-1.6	0.013 - 0.025
Cutworms	0.5 1.5	0.010 0.020
Green cloverworm		1
Meadow spittlebug		
Potato leafhopper		
Alfalfa caterpillar	1.6-2.8	0.025 - 0.044
Alfalfa plant bug	,	0.020
Alfalfa webworm		
Alfalfa weevil		ł
Armyworm (1st and 2nd instar)		
Aster leathopper		
Beet armyworm (1st and 2nd instar)	i i	
Corn earworm		
Corn rootworms (adult)	1	
Cucumber beetle (adult)		
Egyptian alfalfa weevil		
Fall armyworm (1st and 2nd instar)		
Grape colaspis (adult)		
Japanese beetle (adult)		
June beetle (adult)		
Loopers		1
Lygus bug		
Mexican bean beetle		
Stink bugs		
Tarnished plant bug		l
Threecornered alfalfa hopper	1	
Velvetbean caterpillar		ļ
Yellowstriped armyworm (1st and	1	
2nd instar)		
Blotch leafminer	2.0 - 2.8	0.031 - 0.044
Grasshoppers		
Western yellowstriped armyworm		
(1st and 2nd instar)		]
Pests Suppressed		
Blue pea aphid	2.8	0.044
Cowpea aphid	1	
Pea aphid		
Whitefly (adult)		I

Notes: Pre-Harvest Interval (PHI) or Pre-grazing Interval: 7 days.

Maximum Tombstone Helios allowed per cutting: 3.2 fluid ounces/A (0.050 lbs

Al/Acre)

Maximum Tombstone Helios allowed per crop season: 12.8 fluid ounces/A (0.200 lbs A//Acre)

Minimum application volume (water): 10.0 GPA – ground, 2.0 GPA –aerial application.

Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0 qt/A – aerial application.

Due to potential injury to bees, do not apply to alfalfa grown for seed.

Do not apply to mixed stands with intentionally-grown forage grasses.

See CHEMIGATION statement in Application Guidelines section of this label.

#### CORN

Field Corn, Popcorn, Seed Corn (see Sweet Corn recommendations in Vegetable Crops Section)

Crops Section)		
Pests Controlled	Rate fluid ounces/Acre	Rate lbs AVAcre
Black cutworm	0.8 - 1.6	0.013 - 0.025
Flea beetles		
Granulate cutworm		
Sandlhill cutworm		İ
Armyworm (1st and 2nd instar)	1.6 - 2.8	0.025 - 0.044
Bean leaf beetle		
Cereal leaf beetle	1	
Chinch bug	į	1
Click beetle (adult)	'	
Corn earworm		
Corn rootworms (adult)		
European corn borer*	İ	
Grape colapsis (adult)	· ·	
Japanese beetle (adult)	1	
June beetle (adult)		
Leafhoppers		
Masked chafer (adult)	1	}
Southern armyworm (1st and 2nd instar)		
Southern corn leaf beetle		
Southwestern corn borer*	•	
Stalk borer		
Stink bugs	1	
Webworm	1	
Western bean cutworm		
Yellowstriped armyworm (1st and		
2nd instar)	1	
Grasshoppers	2.1 - 2.8	0.033 - 0.044
Fall armyworm (1st and 2nd instar)	2.8	0.044

Notes: Pre-Harvest Interval (PHI): For grain or fodder 21 days; Green forage may be fed 0 days after last application.

Maximum Tombstone Helios allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 11.2 fluid ounces/A (0.175 lbs Al/Acre).

Com cont'd.:

Field Corn, Popcorn, Seed Corn (see Sweet Corn recommendations in Vegetable Crops Section)

Maximum number of application per season: 4. Three applications may be applied up to early dent stage. One application may be made between early dent and 21 days before harvest.

Minimum application volume (water): 10.0 GPA - ground, 2.0 GPA - aerial application. Minimum ULV application volume (once refined cotton seed/vegetable oil):

1.0 qt/A - aerial application.

See CHEMIGATION statement in Application Guidelines section of this label. \*Application must be made prior to the larva boring into the plant.

CORN soil pests

Field Corn, Popcorn, Seed Corn Rate fluid Rate fluid Pests Controlled ounces/1000 row ft ounces/acre (based on 30 inch row spacing) Seedcorn maggot 0.12-0.16 2.0-2.8 Wireworm Pest Suppressed White grub 0.14-0.16 2.5-2.8

Note: Pre-Harvest Interval (PHI): For grain or fodder 21 days; Green forage may be fed 0 days after last application.

Maximum Tombstone Helios allowed per 7 day interval: 2.8 fluid ounces/A (0.044 lbs.

Maximum Tombstone Helios allowed per crop season: 11.2 fluid ounces/A (0.175 lbs Al/Acre)

APPLICATION INSTRUCTIONS:

Carrier: Tombstone Helios may be applied in water or in liquid pop-up fertilizer at planting. Apply in a minimum of 2 GPA of total mix volume when applied in water. Good agitation must be maintained at all times during application.

Instruction for liquid pop-up fertilizer application: Perform a compatibility test prior to mixing the entire tank to ensure that Tombstone Helios will remain in solution while applying. Take a known amount of the fertilizer to be used as a carrier and place in a glass jar. Add the appropriate amount of Tombstone Helios based on the labeled use rate. Add other components to be tank mixed. Gently agitate the solution. Examine the solution for signs of incompatibility such as flocculation, precipitation, separation, etc. If incompatibility occurs contact your local Loveland Products Inc. representative for additional information.

Fertilizers containing zinc have been shown to be incompatible with Tombstone Helios and should not be mixed with Tombstone Helios.

Placement: Total mix volume should be applied in the open furrow ahead of the closing wheels for optimum coverage.

Row width adjustment: The above rate calculations are based on a standard 30 inch row spacing. For row spacing of less than 30 inches, adjust the rate of Tombstone Helios not to exceed 2.8 fluid ounces/A (0.044 lbs Al/Acre). Diminished control may occur when rates are decreased below the recommended minimum rates per 1000 row feet.

COTTON

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Cotton leafperforator	0.8 - 1.6	0.013 - 0.025
Cotton leafworm		
Cutworms		
Thrips		
Boll weevil	1.6 - 2.6	0.025 - 0.041
Cabbage looper .		
Cotton aphid		
Cotton bollworm*		
Cotton fleahopper		
Cucumber beetle	-	
European corn borer		
Flea beetles	1	
Garden webworm		İ
Lygus bug"		
Pink bollworm		
Saltmarsh caterpillar		
Southern garden leafhopper		
Stink bugs		
Tarnished plant bug*		
Threecomered alfalfa hopper	1	1
Tobacco budworm*		
Ovicidal Control:	İ	1
Cotton bollworm and tobacco		
budworm		
Grasshopper	2.0 - 2.8	0.031 - 0.044
Beet armyworm (1st and 2nd instar)	3.2	0.050
Cotton leafminer	1	1
Fall armyworm (1st and 2nd instar)	[,	
Soybean looper		ĺ
Yellowstriped armyworm		
Pest Suppressed		
Whitefly (adult)	3.2	0.050

Notes: Pre-Harvest Interval (PHI): 0 day.

Maximum Tombstone Helios allowed per 3-day interval: 3.2 fluid ounces/A (0.050 lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 32.0 fluid ounces/A (0.500 lbs Al/Acre).

Maximum number of applications: 10

Minimum application volume (water): 10.0 GPA - ground, 2.0 GPA - aerial application.

Cotton cont'd.:

Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0 qt/A aerial application.

See CHEMIGATION statement in Application Guidelines section of this label.

\*See INSECT RESISTANCE statement elsewhere on this label.

Do not graze treated fields.

Do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.

CDACCEC

CHINOLO		
Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Armyworms	1.6-1.9	0.025-0.03
Notes: Pre-Harvest Interval (PHI) for	hav: 7 days	

Pre-grazing Interval for forage: 0 days

Maximum Tombstone Helios allowed per hay cutting: 1.9 fluid ounces/A (0.030 lbs Al/Acre).

Maximum Tombstone Helios allowed per 28 days for forage: 1.9 fluid ounces/A (0.030 lbs AVAcre)

Maximum number of applications per year: 1

Minimum application volume (water): 10.0 GPA - ground, 2.0 GPA - aerial application. See CHEMIGATION statement in *Application Guidelines* section of this label. "Use permitted in CA, ID, OR, and WA only.

DEANHT

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Cutworms	1.0-1.8	0.016-0.028
Green cloverworm		
Potato leathopper		
Rednecked peanutworm		
Velvetbean caterpillar		
Armyworm (1st and 2nd instar)	1.8-2.4	0.028-0.038
Bean leaf beetle		
Corn earworm		1
Corn rootworms (adult)		
Grape colaspis (adult)		
Grasshoppers	1	Ì
Japanese beetle (adult)		
June beetle (adult)	•	
Stink bugs		
Threecornered alfalfa hopper		
Vegetable weevil		
Beet armyworm (1st and 2nd instar)	2.4-2.8	0.038-0.044
Fall armyworm (1st and 2nd instar)		!
Southern armyworm (1st and 2nd instar)		i
Whitefringed beetle (adult)		
Pests Suppressed		
Soybean looper	2.8	0.044
Thrips .		( '
Whitefly (adult)	·	

Notes: Pre-Harvest Interval (PHI): 14 days (minimum time between final application and threshing for seed).

Maximum Tombstone Helios allowed per 10 day interval: 2.8 fluid ounces/A (0.044 ibs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 8.4 fluid ounces/A (0.131 lbs Al/Acre)

Maximum number of applications: 3

Minimum application volume (water): 10.0 GPA - ground; 2.0 - aerial application. Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0 qt/A aerial application.

See CHEMIGATION statement elsewhere on this label.

SORGHUM

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Cutworms	1.0 - 1.3	0.016 - 0.020
Sorghum midge		
Armyworm (1st and 2nd instar)	1.3 - 2.8	0.020 - 0.044
Beet armyworm (1st and 2nd instar)		İ
Black woollybear		
European corn borer*		
Fall armyworm (1st and 2nd instar)		
False chinch bug		
Flea beetle	,	
Sorghum headworm (corn earworm)		
Sorghum webworm		
Southern armyworm (1st and 2nd instar)		
Southwestern corn borer*		
Stalk borer*		
Stink bugs		,
Webworms		
Yellowstriped armyworm (1st and 2nd instar)		
Chinch bug	2.0 - 2.8	0.038 - 0.044
Grasshoppers		
Sugarcane rootstock weevil		

If more than 5.6 fluid ounces/Acre is applied, allow at least 14 days between last application and grazing

Maximum Tombstone Helios allowed per 10-day interval: 2.8 fluid ounces/A (0.044 lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 8.4 fluid ounces/A (0.131 lbs Al/Acre).

Maximum number of applications: 6

Minimum application volume (water): 10.0 GPA - ground; 2.0 - aerial application.

Sorghum cont'd.:

Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0qt/A aerial application.

See CHEMIGATION statement in Application Guidelines section of this label. \*Application must be made prior to the larva boring into the plant.

SOYBEAN				
Pests Controlled	Rate fluid ounces/Acre	Rate Ibs Al/Acre		
Cutworms	0. 8- 1.6	0.013 - 0.025		
Potato leafhopper				
Thrips				
Green cloverworm				
Armyworm	1.6 - 2.8	0.025 - 0.044		
Bean leaf beetle	]			
Bean leaf webber	ļ			
Beet armyworm (1st and 2nd instar)				
Blister beetle				
Cabbage looper				
Click beetle (adult)				
Corn earworm				
Corn rootworms (adult)				
Cucumber beetle	1	Ì		
European corn borer				
Fall armyworm (1st and 2nd instar)	,			
Grape colaspis (adult)	1			
Japanese beetle (adult)				
June beetle (adult)				
Lygus bug				
Masked chafer (adult)				
Mexican bean beetle	i i	İ		
Saltmarsh caterpillar				
Silverspotted skipper				
Southern armyworm (1st and 2nd instar)				
Stink bugs				
Tarnished plant bug*				
Threecornered alfalfa hopper				
Tobacco budworm*		,		
Velvetbean caterpillar				
Webworm				
Woollybear caterpillar	l			
Yellowstriped armyworm				
Grasshoppers	2.0 - 2.8	0.031 - 0.044		
Soybean aphid		ļ		
Pests Suppressed		<del> </del>		
Lesser cornstalk borer	2.8	0.044		
Notes: Pre-Hannet Interval (PHI) or fe		1		

Notes: Pre-Harvest Interval (PHI) or feeding of dry vines: 45 days. Green forage may be fed 15 days after last application.

Maximum Tombstone Helios allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 11.2 fluid ounces/A (0.175 lbs Al/Acre).

Maximum number of applications per season: 4

Minimum application volume (water): 10.0 GPA - ground, 2.0 GPA - aerial application. Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0 qt/A -aerial application.

See CHEMIGATION statement in Application Guidelines section of this label

\*See INSECT RESISTANCE statement elsewhere on this label.

SUGARCANE

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Sugarcane borer*	2.1	0.033
Rice stalk borer*	2.8	0.044
Nedan Dea Harris et Internal (DUI	15 1	· · · · · · · · · · · · · · · · · · ·

Maximum Tombstone Helios allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 16.8 fluid ounces/A (0.263 lbs Al/Acre).

Maximum number of applications: 6.

Minimum application volume (water): 20.0 GPA – ground; 2.0 - GPA aerial application.

Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0 qt/A – aerial application.

Do not apply if soil is saturated with water.

Do not apply when under conditions that favor runoff.

Do not apply in the rain.

\*Application must be made prior to the larva boring into the plant.

SUNFLOWER
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Pests Controlled	Rate fluid ounces/Acre	Rate lbs AVAcre
Cutworms	0.8 - 1.6	0.013 - 0.025
Sunflower beetle	<u> </u>	
Sunflower stem weevil (adult)	1.6 - 2.4	0.025 - 0.038
Banded sunflower moth	2.0 - 2.8	0.031 - 0.044
Grasshoppers		
Stink bugs	1	
Sunflower bud moth		
Sunflower headdipping weevil		
Sunflower midge		1. '
Sunflower moth		
Sunflower seed weevil		

Sunflower cont'd.

Pests Controlled Rate fluid ounces/Acre Rate lbs Al/Acre Palestripped flea beetle 0.044

Notes: Pre-Harvest Interval (PHI) and Pre-grazing or Foraging interval: 30 days. Maximum Tombstone Helios allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs

Maximum Tombstone Helios allowed per crop season: 8.4 fluid ounces/A (0.131 lbs. Al/Acre).

Maximum number of applications: 6

Minimum application volume (water): 10.0 GPA - ground; 2.0 - aerial application (DO NOT apply ULV).

See CHEM!GATION statement in Application Guidelines section of this label.

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Army cutworm	1.0-1.8	0.016-0.028
Cereal leaf beetle		•
Cutworms	•	
Armyworm	1.8-2.4	0.028-0.038
Bird cherry-oat aphid*		
English grain aphid*		l
Fall armyworm (1st and 2nd instar)		
Flea beetles		]
Grasshoppers .		
Grass sawily		i
Pale western cutworm		
Russian wheat aphid*		
Southern armyworm (1st and 2nd instar)		
Stink bugs		
Yellowstriped armyworm		]
Chinch bug	2.4	0.038

Notes: Pre-grazing or Foraging Interval: 7 days. Pre-Harvest Interval (PHI): 30 days. Maximum Tombstone Helios allowed per 3-day interval: 2.4 fluid ounces/A (0.038 lbs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 4.8 fluid ounces/A (0.076 lbs

Maximum number of applications: 2

Minimum application volume (water): 10.0 GPA - ground; 2.0 GPA - aerial application. Minimum ULV application volume (cotton seed/vegetable oil); 1.0 qt/A aerial application

See CHEMIGATION statement in Application Guidelines section of this label.

\*For best control, applications must be made prior to insects damaging the plants. Use the higher rate range and increased water volume for applications occurring after plant damage has taken place or following booting in order to receive better coverage. Once damage occurs or plant growth stage reaches booting, control may be limited to suppression only.

## **VEGETABLE CROPS**

Recommended Applications - Tombstone Helios

For all crops, apply specific dosage of Tombstone Helios at early threshold for target pest, as population begins to develop. Degree of control or suppression of additional labeled pests will be determined, in part by the stage of pest development at application and infestation level of those pests.

Application timing should be based on local economic thresholds. Tombstone Helios may be applied before, during, or after planting. Use the higher rates for moderate to heavy insect pressure. Lower rates are generally adequate for low to moderate insect pressure but require careful scouting and may require more frequent application.

Tombstone Helios is an Emulsifiable Concentrate formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance.

See application recommendations at the beginning of each section: FIELD CROPS, VEGETABLE CROPS; TREE AND VINE CROPS.

**COLE CROPS** 

Includes all members of Crop Subgroup 5A such as, but not limited to: Broccoli, Chinese (gai lon) broccoli, Brussels sprouts, Cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Cauliflower, Cavalo broccoli, Kohlrabi,

Mustard greens and Turnip greens.		
Pests Controlled	Rate fluid ounces/Acre	Rate lbs AVAcre
Cutworms	0,8 - 1.6	0.013 - 0.025
Potato leafhopper	*	
Thrips		
Alfalfa looper	1.6 - 2.4	0.025 - 0.038
Cabbage looper		
Cabbage webworm		
Imported cabbageworm		
Southern cabbageworm		
Armyworm	2.4 - 3.2	0.038 - 0.050
Beet armyworm (1st and 2nd instar)	ļ	
Cabbage flea beetle		
Corn earworm		1
Diamondback moth (larvae)*		
Fall armyworm (1st and 2nd instar)		
Grasshoppers	1	
Japanese beetle (adult)		
Lygus bug		
Meadow spittlebug		
Southern armyworm (1st and 2nd instar)		
Stink bugs	İ	
Tarnished plant bug*		

Bean and Pea, Dry cont'd.:

Includes all members of Crop Subgroup 6C such as, but not limited to: Adzuke bean, Blackeyed pea, Broad bean, Catjang, Chickpea, Cowpea. Crowder pea, Field bean, Field pea, Garbonzo bean, Guar, Kidney bean Lablab bean, Lentil, Lima bean, Lupin (grain, sweet, white and white sweet), Moth bean, Mung bean, Navy bean Pigeon pea, Pinto bean, Rice bean, Tepary bean, Urd bean

(Southern pea included in separate section.)

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Lygus bug	2.4 - 3.2	0.038 - 0.050
Mexican bean beetle		
Pea leaf weevil		
Pea weevil	[	
Saltmarsh caterpillar	Į	
Silverspotted skipper		
Soybean looper*	<b>.</b>	
Threecornered alfalfa hopper		
Tobacco budworm*		,
Velvetbean caterpillar		
Webworm		
Woolybear caterpillar		
Yellowstriped armyworm		
Pest Suppressed		
Pea aphid	3.2	0.050

Notes: Pre-Harvest Interval (PHI): 7 days (minimum time between final application and threshing for seed).

Maximum Tombstone Helios allowed per 14-day interval: 3.2 fluid ounces/A (0.050

Maximum Tombstone Helios allowed per crop season: 6.4 fluid ounces/A (0.100 lbs

Maximum number of applications: 4

Minimum application volume (water): 10.0 GPA - ground, 5.0 GPA - aerial application. See CHEMIGATION statement in Application Guidelines section of this label

Do not feed treated vines or hay to livestock.
\*See INSECT RESISTANCE statement elsewhere on this label.

DEA SOUTHEDN

TLA, SOUTHLINE		
Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Cutworms	0.8 - 1.6	0.013 - 0.025
Potato leafhopper		
Beet armyworm (1st and 2nd instar)	1.6 - 2.1	0.025 - 0.033
Fall armyworm (1st and 2nd instar)		
Corn earworm		
Cowpea curculio		
Grasshoppers		1
Lygus bug		
Stink bugs		
Southern armyworm (1st and 2nd		
instar)		1
Tarnished plant bug*		
Thrips		
Yellowstriped armyworm		
Notes: Pre-Harvest Interval (PHI): 3 da	dy.	

Maximum Tombstone Helios allowed per 5-day interval: 2.1 fluid ounces/A (0.033 lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 10.5 fluid ounces/A (0.165 lbs Al/Acre).

Maximum number of applications: 5.

Minimum application volume (water): 10.0 GPA - ground, 2.0 GPA - aerial application. Due to potential injury to bees, do not apply to southern peas grown for seed.

See CHEMIGATION statement in Application Guidelines section of this label.

Do not feed treated vines or hay to livestock.

Do not apply to cowpea or southern pea varieties grown for livestock feed. \*See INSECT RESISTANCE statement elsewhere on this label.

POTATO, SWEET POTATO and other tuberous and corm vegetables:

Includes all members of Crop Subgroup 1C such as, but not limited to: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Edible canna, Cassava (bitter and sweet), Chayote root, Chufa, Dasheen, Ginger, Leren, Potato, Sweet potato, Tanier,

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Cutworms	0.8 - 1.6	0.013 - 0.025
Potato leafhopper		
Cabbage looper	1.6 - 2.8	0.025 - 0.044
Colorado potato beetle*	1	
Eggplant flea beetle		
European corn borer		
Potato flea beetle		
Potato psyllid		1
Potato tuberworm		
Tarnished plant bug*		
Pest Suppressed		
Aphids	2.8	0.044

Notes: Pre-Harvest Intérval (PHI): 0 day

POTATO, SWEET POTATO and other tuberous and corm vegetables cont'd .: Includes all members of Crop Subgroup 1C such as, but not limited to: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Edible canna, Cassava (bitter and sweet), Chayote root, Chufa, Dasheen, Ginger, Leren, Potato, Sweet potato, Tanier, True vam, Turmeric, Yam bean

If more than 5.6 fluid ounces/Acre is applied, allow at least 14 days between last application and grazing.

Maximum Tombstone Helios allowed per 5-day interval: 2.8 fluid ounces/A (0.044 lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 16.8 fluid ounces/A (0.263 lbs Al/Acre).

Maximum number of applications: 6.

Minimum application volume (water): 10.0 GPA - ground, 2.0 GPA - aerial application. See CHEMIGATION statement in Application Guidelines section of this label \*See INSECT RESISTANCE statement elsewhere on this label.

ROOT VEGETABLES (except sugarbeet)

Includes all members of Crop Subgroup 1B such as, but not limited to: Garden beet, Edible burdock, Carrot, Celeriac, Turnip-rooted chervil, Chicory, Ginseng, Horseradish, Turnip-rooted parsley, Parsnip, Radish, Oriental radish,

Pests Controlled	Rate fluid ounces/Acr	Rate lbs Al/Acre
Aster leathopper	1.6-2.8	0.025-0.044
Cutworms		
Flea Beetle		
Potato leafhopper		ļ
Carrot weevil	2.8	0.044

Notes: Pre-Harvest Interval (PHI): 0 day

Maximum Tombstone Helios allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 14.0 fluid ounces/A (0.220 lbs AVAcre)

Maximum number of applications: 5

Minimum application volume (water): 10.0 GPA - ground; 2.0 GPA - aerial application Do not harvest radish tops (leaves) for human consumption.

Due to potential injury to bees, do not apply to any of the crops listed in this section

See CHEMIGATION statement in Application Guidelines section of this label.

SWEET CORN

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Black cutworm	0.8 - 1.6	0.013 ~ 0.025
Flea beetles	1	
Granulate cutworm		
Sandhill cutworm		
Armyworm	1.6 - 2.8	0.025 - 0.044
Bean leaf beetle		
Cereal leaf beetle	1	
Chinch bug	1	,
Click beetle (adult)		
Corn earworm		
Corn rootworms (adult)		
Corn silk fly		
European corn borer		,
Grape colaspis (adult)		
Japanese beetle (adult)		
Leafhoppers	·	
Masked chafer (adult)		
Southern armyworm (1st and	'	
2nd instar)		
Southern corn leaf beetle		,
Southwestern corn borer		
Stalk borer		
Stink bugs		
Webworm		
Western bean cutworm		
Yellowstriped armyworm		
(1st and 2nd instar)	1	
Grasshoppers	2.0 - 2.8	0.031 - 0.044
Fall armyworm (1st and 2nd instar)	2.8	0.044

Notes: Pre-Harvest Interval (PHI): 0 day Maximum Tombstone Helios allowed per 2-day interval: 2.8 fluid ounces/A (0.044) lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 28.0 fluid ounces/A (0.440 lbs Al/Acre).

Maximum number of applications: 10.

Minimum application volume (water): 10.0 GPA - ground; 2.0 - aerial application. Minimum ULV application volume (once refined cotton seed/vegetable oil): 1.0 qt/A aerial application.

See CHEMIGATION statement in Application Guidelines section of this label.

# TREE and VINE CROPS

Recommended Applications - Tombstone Helios

For tree and vine crops, application rates should be based on the Tree or Vine, Row-Volume/Density concept for either dilute or concentrate applications. For determining product required in concentrate applications, first determine amount of spray volume per acre necessary to spray-to-drip in a dilute application in a grove, yard, vineyard, or orchard. Based on this volume, calculate required formulation quantities per acre. Apply equivalent amount per acre for concentrated sprays. For orchard/vineyard airblast applications, do not spray above trees/vines and turn off outward pointing nozzles at row ends and outer rows.

Cole Crops cont'd.:

Includes all members of Crop Subgroup 5A such as, but not limited to: Broccoli, Chinese (gai Ion) broccoli, Brussels sprouts, Cabbage, Chinese (napa) cabbage, Chinese mustard (gal choy) cabbage, Cauliflower, Cavalo broccoli, Kohlrabi, Mustard greens and Turnip Greens

Rate fluid ounces/Acre Rate lbs Al/Acre Pests Suppressed Vegetable weevil (adult) Yellowstriped armyworm Whitefly (adult) 0.050

Notes: Pre-Harvest Interval (PHI): 0 day.

Maximum Tombstone Helios allowed per 7-day interval: 3.2 fluid ounces/A (0.050 lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 12.8 fluid ounces/A (0.200 lbs Al/Acre).

Maximum number of applications: 4.

Minimum application volume (water): 10 GPA - ground, 5 GPA - aerial application. Due to potential injury to bees, do not apply to cole crops grown for seed See CHEMIGATION statement in Application Guidelines section of this label "See INSECT RESISTANCE statement elsewhere on this label.

CUCURBITS (except crops grown for seed)

Includes all members of Crop Group 9 such as, but not limited to: Balsam apple, Balsam pear, Bitter melon, Chayote, Chinese cucumber, Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourd (includes: hyotan, cucuzza, henchmia and Chinese okra), Muskmelon (includes: cantaloupe, true cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), Pumpkin, Summer squash (includes: crookneck squash, scallop squash, straightneck squash, vegetable marrow, and zucchini) Watermelon, Winter squash (includes: butternut squash, calabaza, hub-

Pests Controlled Rate fluid ounces/Acre Rate Ibs Al/Acre Cutworms Potato leathopper 0.025-0.038 Armyworm 1.6-2.4 Cabbage looper Corn earworm Grasshoppers Melonworm Pickleworm Rindworm Stink buas 0.038-0.044 Cucumber beetle 24-28 Lygus bug Stripped cucumber beetle Tarnished plant bug\* Tobacco budworm Pest Suppressed 0.044 Whitefly (adult) 28

Notes: Pre-Harvest Interval (PHI): 0 day

Maximum Tombstone Helios allowed per 7-day interval: 2.8 fluid ounces/A (0.044 Ibs. Al/Acre)

Maximum Tombstone Helios allowed per crop season: 11.2 fluid ounces/A (0.175 Ibs. Al/Acre)

Maximum number of applications: 4

Minimum application volume (water): 10.0 GPA - ground; 2.0 GPA - aerial application. See CHEMIGATION statement in Application Guidelines section of this label \*See INSECT RESISTANCE statement elsewhere in this label.

#### FRUITING VEGETABLES

Includes all members of Crop Group 8 such as, but not limited to: Eggplant, Groundcherry, Pepino, Pepper (includes: bell pepper, chili pepper, cooking pep-

per, pimento, sweet pepper), Tomatillo, and Tomato

Pests Controlled

Rate fluid ounces/Acre Rate lbs Al/Acre Celery leaftier Colorado potato beetle\* European corn borer Garden webworm Potato aphid Potato leathopper Stink bugs Tomato fruitworm (corn earworm) Tomato hornworm

Beet armyworm (1st and 2nd instar) 0.033-0.044 2.1-2.8 Cabbage looper Southern armyworm (1st and 2nd Tarnished plant bug\* Thrips (except Thrips palmi) Tomato pinworm Variegated cutworm Western yellowstriped armyworm (1st and 2nd instar) 0.044 28 Flea beetles Pests Suppressed 2.8 0.044 Leafminers Pepper weevil c Whitefly (adult)

Fruiting Vegetables cont'd.;

Includes all members of Crop Group 8 such as, but not limited to: Eggplani Groundcherry\*\*, Pepino\*\*, Pepper (includes: bell pepper, chili pepper, cociling

pepper, pimento, sweet pepper), Tomatillo , and Tomato
Notes: Pre-Harvest Interval (PHI) for tomato: 0 days. PHI for all other fruiting
vegetables included in this section: 7 days.

Maximum Tombstone Helios allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs. Al/Acre)

Maximum Tombstone Helios allowed per crop season: 16.8 fluid ounces/A (0.263 lbs Al/Acre)

Maximum number of applications: 6

Minimum application volume (water): 10.0 GPA - ground; 2.0 GPA - aerial application. See CHEMIGATION statement in Application Guidelines section of this label.
\*See INSECT RESISTANCE statement elsewhere on this label.

#### **LEAFY VEGETABLES**

Includes all members of Crop Group 4 such as, but not limited to: Amaranth (Chinese spinach), Arugula (roquette), Cardoon, Celery, Chinese celery, Celtuce, Chervil, Chrysanthemum (edible-leaved and garland), Corn salad, Cress (garden and upland), Dandelion, Dock (sorrel), Endive (escarole), Florence fennel, Lettuce (head and leaf), New Zealand spinach, Orach, Parsley, Purslane (garden and winter), Radicchio (red chicory), Rhubarb, Spinach, Swiss chard, Vine spinach

Rate fluid ounces/Acre	Rate lbs Al/Acre
0.8 - 1.6	0.013 - 0.025
-	
1.6 - 2.4	0.025 - 0.038
	j
	j
2.4 - 3.2	0.038 - 0.050
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	]
'	
	<u> </u>
3.2	0.050
ay.	
	2.4 - 3.2 3.2

Maximum Tombstone Helios allowed per 7-day interval: 3.2 fluid ounces/A (0.050 lbs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 12.8 fluid ounces/A (0.200 lbs Al/Acre).

Maximum number of applications: 4

Minimum application volume (water): 10 GPA - ground, 5 GPA - aerial application. Due to potential injury to bees, do not apply to lettuce grown for seed. See CHEMIGATION statement in Application Guidelines section of this label. See INSECT RESISTANCE statement elsewhere on this label.

## BEAN AND PEA, DRY

Includes all members of Crop Subgroup 6C such as, but not limited to: Adzuke bean, Blackeyed pea, Broad bean, Catjang, Chickpea, Cowpea. Crowder pea, Field bean, Field pea, Garbonzo bean, Guar, Kidney bean, Lablab bean, Lentil, Lima bean, Lupin (grain, sweet, white and white sweet), Moth bean, Mung bean, Navy bean, Pigeon pea, Pinto bean, Rice bean, Tepary bean, Urd bean

(Southern pea included in separate section.)

Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre
Cutworms	0.8 - 1.6	0.013 - 0.025
Potato leafhopper		
Cowpea curculio*	1.6 - 2.4	0.025 - 0.038
Stink bugs		
Tarnished plant bug*		
Bean leaf beetle	2.4 - 3.2	0.038 - 0.050
Bean leaf webber		
Beet armyworm (1st and 2nd instar)	1 .	ì
Blister Beetle		
Cabbage looper		
Corn earworm	·	
Cucumber beetle		
European corn borer		
Fall armyworm (1st and 2nd instar)		
Grasshoppers	· ·	
Green cloverworm		
Japanese beetle (adult)		1

Tombstone Helios is an Emulsifiable Concentrate (EC) formulation and is active by contact and ingestion. Thorough coverage of foliage and fruit is necessary for optimum performance.

For all crops, apply specific dosage of Tombstone Helios at early threshold for target pests, as population begins to develop. Degree of control or suppression of additional labeled pests will be determined, in part by the stage of pest development at application and infestation level of those pests.

Application timing should be based on local economic thresholds. Use the higher rates for moderate to heavy insect pressure. Lower rates are generally adequate for low to moderate insect pressure but require careful scouting and may require more frequent application

See application recommendations at the beginning of each section: FIELD CROPS; VEGETABLE CROPS; TREE and VINE CROPS.

CITRUS (California and Arizona, Only)

Includes all members of Crop Group 10 such as, but not limited to:

Calamondin, Citrus citron, Citrus hybrids (includes chironia, tangelo, and tangor), Grapefruit, Kumquat. Lemon, Lime, Mandarin (tangerine), Orange (sweet and sour), Pummelo, Satsuma mandarin, Tangelo, White sapote, and other cultivars and/or hybrids of these.

Pests Controlled	Rate . fluid ounce/Acre	Rate lbs. Al/Acre
Glassywinged sharpshooter	1.6 - 3.2	0.025-0.050
Foliar feeding cutworms	2.4 - 3.2	0.038-0.050
Fuller rose beetle (larvae and adults on foliage)		
Grasshoppers		
Root-weevil complex (larvae and adults on foliage)		_
Citrus thrips	6.4	0.10
Katydid	. [	

Notes: Pre-Harvest Interval (PHI): 0 day.

Maximum Tombstone Helios allowed per 7-day interval: 6.4 fluid ounces/A (0.10 lbs Al/Acre).

Maximum Tombstone Helios allowed per crop season: 6.4 fluid ounces/A (0.10 lbs Al/Acre).

Maximum number of applications: 4 (at low rate)

Minimum application volume (water): 25 GPA – ground, 25 GPA – aerial application. Maximum use rate is based on canopy size requiring 250 gallons per acre, if sprayed to drip.

#### GRAPE

Includes: Table grape, Raisin, Wine and Muscadine grape					
Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre			
Glassywinged sharpshooter	1.6 - 3.2	0.025-0.050			
Grape leaf skeletonizer					
Western grape skeletonizer					
Climbing cutworm	2.4-3.2	0.038-0.050			
Grape berry moth					
Grape bud beetle					
Grape cane gallmaker (adult)					
Grape flea beetle	i .				
Grape leaffolder					
Grape leafhopper					
Grape leafroller		i			
Grape mealybug (crawlers)	•				
Omnivorous leafroller					
Orange tortrix		Ì			
Thrips					
Variegated leafhopper					

Notes: Pre-Harvest Interval (PHI): 3 days.

Maximum Tombstone Helios allowed per 14-day interval: 3.2 fluid ounces/A (0.050 Ibs. Al/Acre)

Maximum Tombstone Helios allowed per crop season: 12.8 fluid ounces/A (0.200 lbs. Al/Acre)

Maximum number of applications: 4

Minimum application volume (water): 50 GPA - ground; 25 GPA - aerial application. Maximum use rate is based on canopy size requiring 250 gallons per acre, if sprayed to drip.

#### HOP

Rate fluid ounces/Acre	Rate lbs Al/Acre
3.2	0.050
	Rate fluid ounces/Acre 3.2

Notes: Pre-Harvest Interval (PHI): 7 days

Maximum Tombstone Helios allowed per 14-day interval: 3.2 fluid ounces/A (0.050 lbs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 16.0 fluid ounces/A (0.250 lbs Al/Acre)

Maximum number of applications: 5

Minimum application volume (water): 25 GPA - ground; 25 GPA - aerial application.

#### POME FRUIT

includes all members of Crop Group 11 such as, but not limited to: Apple,

Crabapple, Loquat, Mayhaw, Pear Pests Controlled	Rate fluid ounces/Acre	Rate lbs AVAcre
Green fruitworm	1.4-2.0	0.022-0.031
Potato leafhopper		
White apple leafhopper	·	
Codling moth	2.0-2.4	0.031-0.038
Oriental fruit moth		
Spotted tentiform leafminer		
Stink bugs	Į.	
Tarnished plant bug	<b>,</b>	
Western tentiform leafminer		
Apple leafroller	2.4-2.8	0.038-0.044
Apple maggot .		
Ermine moth.		
European apple sawfly		1
Lesser appleworm	· ·	
Obliquebanded leafroller	•	
Pandemis leafroller	•	
Pear sawfly (larvae = pear slug)	1	1
Periodical cicada		
Plum curculio		
Redbanded leafroller		
San Jose scale (crawlers)		
Tufted apple bud moth		
Variegated leafroller		

Notes: Pre-Harvest Interval (PHI): 7 days

Maximum Tombstone Helios allowed per 14-day interval: 2.8 fluid ounces/A (0.044 lbs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 2.8 fluid ounces/A (0.044 lbs. Al/Acre)

Maximum number of applications: 2 (at low rate)

Minimum application volume (water): 100 GPA - ground application; 25 GPA - aerial

Maximum use rate is based on canopy size requiring 400 gallons per acre, if sprayed to drip.

#### STONE FRUIT

Includes all members of Crop Group 12 such as, but not limited to: Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum (includes Chickasaw plum, Damson

plum, and Japanese plum), Plumcot, Prune					
Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre			
Green fruitworm	1.4-2.0	0.022-0.031			
Lesser peach tree borer					
White apple leafhopper					
Codling moth	2.0-2.4	0.031-0.038			
Lygus bug	İ				
Oriental fruit moth	1				
Stink bugs					
Tarnished plant bug					
American plum borer	2.4-2.8	0.038-0.044			
Black cherry aphid					
Cherry fruit fly					
Obliquebanded leafroller		İ			
Omnivorous leafroller					
Peach twig borer					
Periodical cicada					
Plum curculio	1				
Redbanded leafroller					
Western cherry fruit fly		·			

Notes: Pre-Harvest Interval (PHI): 7 days.

Maximum Tombstone Helios allowed per 14-day interval: 2.8 fluid ounces/A (0.044 ibs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 5.6 fluid ounces/A (0.088 lbs Al/Acre)
Maximum number of applications: 4 (at low rate)

Minimum application volume (water): 50 GPA - ground application; 25 GPA - aerial application.

Maximum use rate is based on canopy size requiring 250 gallons per acre, if sprayed to drip.

#### TREE NUT CROPS

Includes all members of Crop Group 14 such as, but not limited to: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory

nut, Macadamia nut, Pecan, Pistachio, Walnut (black and English)					
Pests Controlled	Rate fluid ounces/Acre	Rate lbs Al/Acre			
Potato leafhopper	1.4-2.0	0.022-0.031			
White apple leafhopper					
Ants (on foliage)	2.0-2.4	0.031-0.038			
Codling moth					
Common earwig					
Filbertworm					
Leaffooted bug					
Navel orangeworm					
Pecan nut casebearer					
Pecan weevil					
Stink bugs					
Tarnished plant bug					
Twolined spittlebug					

TREE NUT CROPS cont'd.:

Includes all members of Crop Group 14 such as, but not limited to: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (black and English)

Peets Controlled
Hickory shuckworm
Obliquebanded leafroller
Peach twig borer
Walnut husk fly

Rate fluid ounces/Acre
Rate lbs AVAcre
2.4-2.8
0.038-0.044
0.038-0.044

Notes: Pre-Harvest Interval (PHI): 14 days

Maximum Tombstone Helios allowed per 14 day interval: 2.8 fluid ounces/A (0.044 lbs Al/Acre)

Maximum Tombstone Helios allowed per crop season: 2.8 fluid ounces/A (0.044 lbs Al/Acre)

Maximum number of applications: 2 (at low rate)

Minimum application volume (water): 100 GPA - ground application; 25 GPA - aerial application.

Maximum use rate is based on canopy size requiring 500 gallons per acre, if sprayed to drip.

RATE CONVERSION CHART

TIALE COST ELICION CHART						
FLUID OUNCES PER ACRE	LBS AI PER ACRE	ACRE PER GALLON				
0.8	0.013	160				
1.0	0.016	128				
1.2	0.019	107				
1.4	0.022	91				
1.6	0.025	. 80				
1.8	0.028	71				
2.0	0.031	64				
2.2	0.034	56				
2.4	0.038	53				
2.6	0.041	49				
2.8	0.044	46				
3.0	0.047	43				
3.2	0.050	40				
6.4	0.100	20				

RATE CONVERSION CHART FOR TREE AND VINE APPLICATIONS							
FLUID FLUID OUNCES PER 100 GAL OF WATER OUNCES WHEN USING SPRAY VOLUME OF:							
PER ACRE	25 GPA	50 GPA	100 GPA	150 GPA	200 GPA	250 GPA	500 GPA
1.4	5.6	2.8	1.4	0.9	0.7	0.56	0.28
1.6	6.4	3.2	1.6	1.1	0.8	0.64	0.32
2.0	8.0	4.0	2.0	1.3	1.0	0.8	0.4
2.4	9.6	4.8	2.4	1.6	1,2	1.0	0.5
2.8	11.2	5.6	2.8	1.9	1.4	1.1	0.6
3.2	12.8	6.4	3.2	2.1	1.6	1.3	0.65
6.4	25.6	12.8	6.4	4.3	3.2	2.6	1.3

#### **CROP ROTATION STATEMENT**

Treated areas may be replanted with any crop as soon as practical after last application.

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