

Fugitive

Registrant: Makhteshim Agan of North America, Inc. d/b/a ADAMA

GENERAL

EPA Registration Number:	66222-138	Signal Word:	CAUTION
CA Registration Number:	66222-138-ZA		
Active Ingredient:	41.0 - Oryzalin	Application Methods:	Chemigation, Ground
Label Version:	14613 081015-1.0	Mode of Action:	WSSA 3
Physical State:	Liquid (10.34 lb / ga)	Toxic To:	Fish
Product Type:	Herbicide	Rainfastness:	
Formulation Type:	Liquid Concentrate OR Low Concentrate		

ADDITIONAL INFORMATION

Federally Restricted:	No		
Organic Certifications:	None	Other Certifications:	None
Posting Required:	No	Closed Mixing System Required:	All applications in All States/Provinces: Not required
Oral Notification Required:	No	Avoid Grazing:	Yes

CALIFORNIA

Registration #:	66222-138-ZA	CA Restricted:	No
CA NOI Required:	No		

REGISTERED FOR USE IN

PACKAGE TYPES

2.5 GA Package(s) (2 / Case)

****Specific Notices will not be shown until a pest is selected.**

SAFETY

PPE Information:	PERSONAL PROTECTIVE EQUIPMENT (PPE) Applicators and other handlers must wear: - Long-sleeved shirt and long pants - Chemical-resistant gloves - Shoes plus socks - Mixers and loaders must wear a chemical-resistant apron in addition to other PPE Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. Follow manufacturers instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
Re-Entry PPE Information:	Workers may enter treated areas without required PPE during the reentry interval following 1/2 to 1 inch of rainfall or irrigation if they are performing tasks that do not involve contact with the soil subsurface; otherwise, 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 - Shoes plus socks
Transport Information:	DOT Non-bulk packages (less than 119 gal/ 450 liters): Not Regulated Bulk packages (greater than 119 gal/ 450 liters): UN/ID No Proper Shipping Name Hazard Class Packing Group Marine Pollutant UN3077 Environmentally Hazardous Substance, liquid, N.O.S. (Oryzalin) 9 III Yes IATA UN/ID No Proper Shipping Name Hazard Class Packing Group Marine Pollutant UN3077 Environmentally Hazardous Substance, liquid, N.O.S. (Oryzalin) 9 III Yes IMDG UN/ID No Proper Shipping Name Hazard Class Packing Group Marine Pollutant UN3077 Environmentally Hazardous Substance, liquid, N.O.S. (Oryzalin) 9 III Yes
Response Number:	800-535-5053
Medical Number:	877-250-9291
SDS Hazard ID Signal Word:	Not Available - MSDS

GENERAL NOTICE 1

ENGINEERING CONTROLS STATEMENT When handlers use closed systems or enclosed cabs in a manner that meets the requirement 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.

GENERAL NOTICE 2

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.

GENERAL NOTICE 3

ENVIRONMENTAL HAZARDS This pesticide is toxic to fish. 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 contaminate water when disposing of equipment washwaters. Cover or incorporate spills.

GENERAL NOTICE 4

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.

GENERAL NOTICE 5

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 24 hours. Exception: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

GENERAL NOTICE 6

PRODUCT INFORMATION Read all directions for use carefully before applying. Fugitive (R) herbicide is a preemergence, surface-applied herbicide for the control of many annual grasses and certain broadleaf weeds in citrus, fruit and nut trees, berries, vineyards, and Christmas trees plantations. Fugitive controls susceptible annual weeds by disrupting plant growth processes during germination. Fugitive may be applied in liquid sprays of water or liquid fertilizer. Fugitive may be tank mixed with other herbicides to control existing vegetation or improve the spectrum of weeds controlled. Fugitive alone does not control established weeds. Fugitive may be applied before or after transplanting of the crop. If applied prior to transplanting: (1) disturbance of surface soil should be minimized to prevent loss of weed control; and (2) exposure of the roots of transplants to treated soil should be minimized to avoid any possibility of crop injury.

GENERAL NOTICE 7

USE PRECAUTIONS AND RESTRICTIONS - Do not graze or feed forage from treated fields or orchards to livestock. - Poor weed control may result if directions are not carefully followed. - Do not over-apply Fugitive. Over-application may result in crop injury or soil residue. - Do not plant any root crop for 12 months following an Fugitive application. - Do not use Fugitive on soils containing more than 5% organic matter. - Apply Fugitive directly to the soil surface in orchards or vineyards. - Carefully follow label directions to avoid poor weed control or crop injury. - Chemigation: See instructions for chemigation in the APPLICATION METHODS section of this label.

GENERAL NOTICE 8

- Do not aerially apply this product.

GENERAL NOTICE 9

ROTATION CROP INTERVAL To avoid crop injury, a 24-month rotational interval is suggested when rotating from tree and vine crops to row crops.

GENERAL NOTICE 10

SOIL PREPARATION Optimum herbicidal activity occurs when Fugitive is applied to the soil surface. Prior to application, existing unwanted vegetation should be destroyed by tillage or use of contact or translocated herbicides. Crop or weed residues, pruning, and trash should be thoroughly mixed into the soil by tillage equipment or removed before treatment. Soil should be in good tilth and free of clods at the time of application.

GENERAL NOTICE 11

ACTIVATION AND CULTIVATION A single 1/2 to 1 inch rainfall or sprinkler irrigation is required to activate Fugitive and move the herbicide into the zone of weed germination. Rainfall or irrigation of 1 inch or more is needed to activate Fugitive on fine-textured, high organic matter soils. If weeds begin to emerge, a shallow cultivation to a depth of 1 to 2 inches will destroy existing weeds and place Fugitive in the zone of weed germination.

GENERAL NOTICE 12

TANK MIXING PRECAUTIONS - Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels. - Do not exceed application rates specified on this label. - For products packaged in water-soluble packaging, do not tank mix with products containing boron or mix in equipment previously used to apply a product mixture containing boron unless the tank and spray equipment have been thoroughly cleaned. **Tank Mix Compatibility Testing:** Perform a jar test prior to tank mixing to ensure compatibility of Fugitive and other products. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, gels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used. **Mixing Order (Tank Mixing with Water):** Fill the spray tank to 1/4 to 1/3 of the total spray volume. Start agitation. Add different formulation types in the order below, allowing time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products: 1. Add dry flowables; wettable powders; Fugitive or other aqueous suspensions; flowables and water-based solutions. 2. Maintain agitation and fill spray tank to 3/4 of total spray volume. Then add any emulsifiable concentrates. Finish filling the spray tank. Maintain continuous agitation during mixing, final filling, and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed. **Tank Mixing with Liquid Fertilizer:** Prior to mixing Fugitive with other products in liquid fertilizer, refer to the tank mix product manufacturer's label to determine if application in liquid fertilizer is allowed. Also refer to **TESTING FOR COMPATIBILITY IN LIQUID FERTILIZERS** section of this label for testing procedures to determine tank mix compatibility with the liquid fertilizer product to be used. The combination of Fugitive with solution and suspension-type fertilizers provides annual weed control equal to Fugitive applied in water. Individual state regulations relating to liquid fertilizer mixing, registration, labeling, and application are the responsibility of the individual and/or company offering the fertilizer and chemical mixture for sale. Read and follow all label instructions for each material to be added to the spray tank. Vigorous continuous agitation is required for all tank mixes. Sparger pipe agitators generally provide the best agitation in spray tank. To prevent foaming, keep the end of the fill pipe below the surface of the water in the spray tank during filling to prevent air from being stirred or splashed into the mixture. **Mixing Order (Tank Mixing With Liquid Fertilizer):** Fill the spray tank to 3/4 of the total spray volume required. Start agitation. Add different formulation types in the following order allowing time for complete mixing and dispersion after addition of each product; allow extra mixing and dispersion time for dry flowable products: Dry flowables; wettable powders; Fugitive or other aqueous suspensions; flowables; water-based solutions; and any emulsifiable concentrates. Finish filling spray tank. Maintain continuous agitation during mixing, final filling, and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled materials may be more difficult to resuspend than when originally mixed. **Premixing:** When tank mixing, initial mixing and dispersion of certain dry flowable or wettable powder products may be improved by premixing with water (slurrying). Follow product label instructions for each material. Adding the slurried material to the spray tank through a 20- to 35-mesh wetting screen will help assure good initial dispersion. Line screens in the tank through a 20- to 35-mesh wetting screen will help assure good initial dispersion. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

GENERAL NOTICE 13

TESTING FOR COMPATIBILITY IN LIQUID FERTILIZERS Fugitive alone or in combination with dry flowable (DF), wettable powder (WP), aqueous suspension (AS), flowable (F), liquid (L), solution (S) or emulsifiable concentrate (EC) formulations may not combine properly with some liquid fertilizer materials. Small quantities of such mixtures should always be tested before fullscale mixing. Follow the testing procedure below to determine if a compatibility agent is needed or which compatibility agent works best in your liquid fertilizer plus herbicide mixture. **Testing Procedure** 1. Add 1 pint of liquid fertilizer to 1 quart glass jar. 2. Add 1 to 4 teaspoonfuls of DF, WP, Fugitive, other AS formulations, F, or L formulations depending on mixing ratio required to the liquid fertilizer. Close the jar and shake until evenly dispersed after addition of each formulation. If dry flowable or wettable powder formulations do not disperse well, it may be necessary to slurry the materials in a small amount of water before addition to the liquid fertilizer. 3. After dispersing the materials in step 2, add any S formulations to the jar and shake well. Finally, add EC formulations to the mixture and shake well. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer that will not redisperse when agitated, a compatibility agent is needed. If the mixture is easily redispersed with slight agitation, a compatibility agent is not required. Good agitation must be provided to maintain dispersion in the spray tank from mixing through application. 4. If the need for a compatibility agent is demonstrated in step 3, follow the procedure outlined below: Using a clean, clear plastic or glass container, repeat step 1 above and add 1/2 teaspoon of the compatibility agent to the liquid fertilizer mixture. Shake well and then repeat steps 2 and 3. An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separation for 1/2 hour or longer. If slight separation occurs, 2 to 3 inversions of container should be sufficient to uniformly redisperse the mixture. If layers form which will not disperse, try adding additional compatibility agent or use an alternative compatibility agent to achieve a uniform mixture. Use a clean jar in each test. A compatible mixture will have a uniform appearance and will be relatively easy to redisperse with gentle agitation of the jar.

GENERAL NOTICE 14

COMPATIBILITY AGENTS Use a phosphate ester-type surfactant designed for use with liquid fertilizers mixed at rates as low as 1 1/2 to 2 pints per ton of liquid fertilizer. This type of surfactant usually doesn't work well as a compatibility agent for tank mixes in plain water. Add the compatibility agent just before adding herbicides. Read and follow label directions for the compatibility agent.

GENERAL NOTICE 15

CHEMIGATION Fugitive may be applied through properly equipped chemigation systems for weed control in fruit and nut orchards or vineyards. Read and follow all label instructions outlined below concerning chemigation before applying Fugitive by this method. Chemigation Use Precautions: Apply this product only through solid set or hand move systems designed to distribute sprinkler irrigation beneath the tree canopy. Solid set systems utilizing tall risers for overhead application are excluded except for dormant-season applications of Fugitive. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact state extension specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system. 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. Sprinkler Chemigation Directions: The following directions must be followed for all sprinkler irrigation systems (solid set and hand move systems): 1) The system must contain a functional check valve, vacuum-relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back-flow. 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point that pesticide distribution is adversely affected. 6) Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. 7) Do not apply when wind speed favors drift beyond the area intended for treatment. 8) Fugitive should be injected continuously throughout the chemigation period. The chemigation metering pump should be checked periodically during application to insure proper operation. 9) The injection metering pump must be calibrated as specified by the manufacturer. 10) During chemigation, maintain agitation in supply tank at all times. 11) Fugitive may cause some staining of plastic hoses and tanks. 12) Apply Fugitive in sprinkler irrigation equal to 1/2 to 1 inch of water. Chemigation System Calibration: Sample calculation for use of Fugitive in a chemigation system: - Assume, in this example, 35 acres are to be covered by a chemigation treatment. - Product required, assuming 1 quart per acre is 35 quarts (8.75 gallons). - Prepare a mixture containing 1 part water and 1 part Fugitive by adding 8.75 gallons of product to the supply tank containing an equal amount of water (total volume = 17.5 gallons). - Adjust the injection system to deliver 17.5 gallons during the time required to apply 1 inch of water to 35 acres. - If the irrigation system requires 5 hours to apply 1 inch of water to 35 acres, the injection rate is 3.5 gallons per hour and is calculated as follows: 17.5 gallons/5 hours = 3.5 gallons/hour [3.5 gallons = 448 fluid ounces (fl oz)] Proper calibration requires the injection pump to be adjusted to deliver 7.47 fl oz per minute and is calculated as follows: 448 fl oz per hr/60 min per hr = 7.47 fl oz/min. Chemigation Mixing Directions: The injection mixture (slurry) with minimum volume may be prepared by adding the required amount of Fugitive to an equal amount of water in the injection tank (ratio Fugitive to water = 1:1). Meter the mixture into the irrigation system during the entire irrigation period. Additional dilution of Fugitive may be necessary for accurate calibration of equipment designed to deliver a larger injection volume per hour. Maintain supply tank agitation throughout the irrigation period. Undiluted Fugitive should not be injected into chemigation systems.

GENERAL NOTICE 16

Apply Fugitive as a preemergence treatment to control annual grasses and broadleaf weeds listed in PRODUCT INFORMATION section. For orchard crops including citrus, pome fruits, stone fruits, and tree nuts, apply product only as a strip treatment in the tree rows; do not apply to row middles or drive rows.

GENERAL NOTICE 17

FIRST AID IF ON SKIN OR CLOTHING: - Take off contaminated clothing. - Rinse skin immediately with plenty of water for 15-20 minutes. - Call a poison control center or doctor for treatment advice. IF IN EYES: - Hold eye open and rinse slowly and gently with water for 15-20 minutes. - Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. - Call a poison control center or doctor for treatment advice. IF SWALLOWED: - Call a poison control center or doctor immediately for treatment advice. - Have person sip a glass of water if able to swallow. - Do not induce vomiting unless told to do so by a poison control center or doctor. - Do not give anything by mouth to an unconscious person. IF INHALED: - Move person to fresh air. - If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth-to-mouth if possible. - Call a poison control center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact PROSAR at 1-877-250-9291 for emergency medical treatment information.

TANK MIX INFORMATION

Fugitive in Tank Mix

Vigorous, continuous agitation during mixing, filling, and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks.

To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture.

Fugitive may be tank mixed with label rates of other products and applied with water or most liquid fertilizer materials provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; (2) tank mixing is not prohibited by the label of the tank mix product; and (3) A jar test is performed to ensure the compatibility of products to be used in tank mixture.

SPECIAL INSTRUCTIONS**MIXING DIRECTIONS**

Fugitive Alone

Fugitive may be applied in water or most liquid fertilizer materials.

Prior to mixing Fugitive in liquid fertilizer, refer to TESTING

FOR COMPATIBILITY IN LIQUID FERTILIZERS section of this label for test procedures to determine compatibility with the fertilizer product to be used. The combination of Fugitive with solution and suspension-type fertilizers provides annual weed control equal to Fugitive applied in water. Individual state regulations relating to liquid fertilizer mixing, registration, labeling, and application are the responsibility of the individual and/or company offering the fertilizer and chemical mixture for sale.

Start with a clean spray tank. Fill the sprayer to 1/3 to 1/2 of the required spray volume. Start agitation, shake the container well, add the correct amount of Fugitive, continue agitation, and fill spray tank to required spray volume. Maintain continuous agitation from mixing through application.

Precaution: Do not allow the mixture to siphon back into the water source.