

100-1036

9/23/2003

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Jerry Wells
Syngenta Crop Protection
P.O. Box 18300
Greensboro, NC 27419-8300

SEP 23 2003

Dear Mr. Wells:

Subject: Revised Labeling
Arroso 3-3E
EPA Registration No. 100-1036 ✓
Your Submission Dated August 27, 2003

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. If molinate is the common accepted name of the active ingredient include it in the ingredient declaration before the chemical name.
 - b. Delete the heading "General Use...". This term is an implied safety claim which is prohibited by 40 CFR Part 156.10(a)(5).
2. Submit one (1) copy of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records. If you have any questions concerning this letter, please contact Mr. James Stone at 703-305-7391.

Sincerely yours,
Joanne I. Miller
Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure

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ARROSOLO® 3-3E

Emulsifiable Liquid Herbicide For Use on Rice Grown in the Southern United States Only

Active Ingredients:	
S-ethyl hexahydro-1 <i>H</i> -azepine-1-carbothioate	33.1%
<u>N-(3,4-dichlorophenyl) propanamide</u>	<u>33.1%</u>
Other Ingredients:	33.8%
Total:	100.0%

Contains 3 Lbs. of Ordram® and 3 Lbs. of Propanil (Active Ingredients) Per Gal.

KEEP OUT OF REACH OF CHILDREN.

**WARNING
AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

See Side Panel for Statement of Practical Treatment and Precautionary Statements.

EPA Reg. No. 1000-1036
EPA Est. XXXX

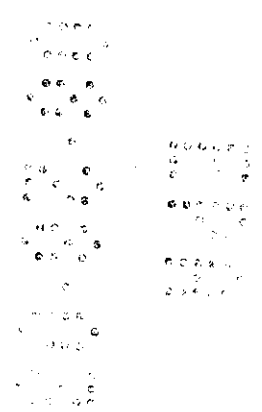
Product of the USA

ACCEPTED
with COMMENTS
in EPA Letter Dated
SEP 23 2003

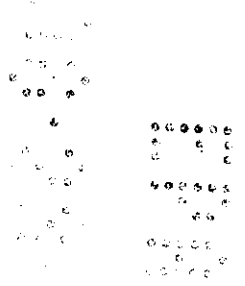
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-1036

SCP 100-xxxx

NET WEIGHT / U.S. Standard Measure



FIRST AID Contains a Thiocarbamate Herbicide	
If in eyes	<ul style="list-style-type: none"> • 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 on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
In inhaled	<ul style="list-style-type: none"> • 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 treatment advice.
NOTE TO PHYSICIAN	
<p>Contains a thiocarbamate herbicide (molinate) that inhibits cholinesterase. However, it is considered to be a weak cholinesterase inhibitor. Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulfate, either by intramuscular or intravenous injection, dependant on severity of poisoning. Since there is no therapeutic effect, the use of oxime preparations (e.g., 2-PAM) or other cholinesterase reactivators is contraindicated.</p>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
HOT LINE NUMBER	
<p>For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372</p>	



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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING

Causes substantial but temporary eye irritation. Harmful if swallowed. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.

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 F on an EPA chemical resistance category selection chart.

Applicators and pilots not involved in mixing or loading this product must wear:

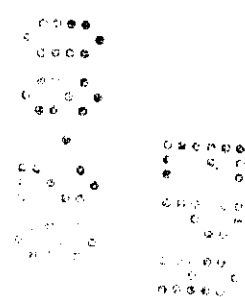
- Coverall or long-sleeved shirt, long pants
- Shoes plus socks

Mixers, loaders, flaggers and others coming in contact with this product must wear:

- (A) A long-sleeved shirt and long pants under disposable coveralls made of a synthetic material capable of excluding particles 45 microns or larger in diameter, such as Kleenguard™ OR (b) A cotton coverall or chemical-resistant coverall over a full body cloth suit impregnated with activated charcoal.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber ≥14 mils or nitrile rubber ≥14 mils or viton ≥14 mils.
- Chemical-resistant footwear plus socks.
- A respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.
- If dry disconnects are not used for loading this product, a chemical resistant apron must be worn.

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

The above personal protective equipment requirements for mixers and loaders may not be reduced even if a closed mixing and loading system is used. Handler PPE may not be reduced or modified as specified in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240 (d)(4-6)] for closed systems.



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.

Environmental Hazards
This pesticide is extremely toxic to fish. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters. Do not contaminate water used for domestic use.

Water drained from treated rice fields must not be used to irrigate other crops or released within 1/2 mile upstream of a potable water intake in flowing water (i.e., river, stream, etc.) or within 1/2 mile of a potable water intake in a standing body of water such as a lake, pond or reservoir.

Physical And Chemical Hazards
COMBUSTIBLE LIQUID
Do not use or store near heat or open flame.

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CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

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

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

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

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified Country: United States of America.

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.

Do not apply this product through any type of irrigation system.

No person shall mix or load more than 7,600 gals. of Arrosolo per growing season or when used in combination with Ordram 8E, no more than 22,800 lbs. of molinate active ingredient per growing season.

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 protection 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.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or butyl rubber ≥14 mils or nitrile rubber ≥14 mils or viton ≥14 mils
- Shoes plus socks
- Protective eyewear

STORAGE AND DISPOSAL

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

Storage

Do not use or store near heat or open flame. Do not store near seeds and fertilizer. Keep container closed when not in use. Open dumping is prohibited. Do not reuse empty container (for non-bulk or mini-bulk containers).

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

Plastic

Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or other procedures approved by State and local authorities.

For Mini-Bulk Containers

Container Disposal

Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

Container Precautions

Before refilling, inspect thoroughly for damage, such as cracks, punctures, bulges, dents, abrasions or worn threads on closure devices. **REFILL ONLY WITH Arrosolo 3-3E.** The contents of this container cannot be completely removed by cleaning. Refilling with materials other than Arrosolo 3-3E will result in contamination and may weaken container. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container. **CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER!**

GENERAL USE PRECAUTIONS

Read all label directions before using. Do not overdose.

Arrosolo® 3-3E emulsifiable liquid herbicide should be used only for recommended purposes and at recommended rates. Arrosolo 3-3E may cause crop injury under extreme soil or climatic conditions or if directions are not followed.

Except as specified on this label, the use of fertilizers, oils, surfactants, and/or herbicides in tank mixes with Arrosolo 3-3E may result in crop injury and/or impair the mixing properties of Arrosolo 3-3E. A small scale physical compatibility test, as outlined in **Mixing Procedures**, should be conducted on all herbicide tank mixes before combining in the spray tank.

Avoid spray drift to all other crops and non-target areas.

Do not apply carbamate or organophosphorus insecticides in combination with Arrosolo 3-3E.

Do not apply carbamate or organophosphorus insecticides within 7 days before or after Arrosolo 3-3E application. Severe injury or kill of rice plants may result from tank mix combination or separate sprays of Arrosolo 3-3E and certain insecticides.

Do not apply Arrosolo 3-3E when rice is exhibiting stress from very cold temperatures, drought conditions, or injury from previously applied pesticides, diseases or insects.

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Arrosolo 3-3E should only be applied to fields which have been drained of flood water to expose susceptible weeds.

To avoid injury do not apply when the air temperature is above 100°F.

Weed control may be impaired if Arrosolo 3-3E is applied when the air temperature is below 70°F.

For best results apply Arrosolo 3-3E to actively growing weeds in the 1-2 leaf stage.

Do not apply if rainfall is anticipated within 6 hours after application.

Do not apply when wind speed is greater than 10 mph.

Do not apply more than 9 pounds of active ingredient of Ordram® selective herbicide per acre per season.

GENERAL APPLICATION DIRECTIONS

Arrosolo 3-3E is a selective broad spectrum postemergence rice herbicide for control of annual grasses and broadleaf weeds.

All equipment used in the application of Arrosolo 3-3E should be carefully calibrated before use and checked frequently during application to be sure the application is uniform. Avoid overlaps that will increase Arrosolo 3-3E dosage above recommended limits, because crop injury may occur.

Apply Arrosolo 3-3E in 20-50 gals. of water per acre by ground equipment and in 10-15 gals. of water per acre by airplane.

Shake well before using.

Directions for Use and Recommendations

Southern United States (Arkansas, Louisiana, Mississippi, Missouri [Boot-Heel Region Only] and Texas)

Postemergence, Preflood: For use on dry-seeded and water-seeded rice.

For control of Barnyardgrass, Sprangletop, Dayflower and Broadleaf Signalgrass, apply Arrosolo 3-3E at 3-4 qts./A depending on weed size as shown in the table below. For best results, apply Arrosolo 3-3E when weeds are in the 1-2 leaf stage. Flood the rice within 5 days after application to prevent weed reinfestation.

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Weeds Controlled by Arrosolo 3-3E and Rate Chart

Weeds		Maximum Leaf Stage	
		3 Quarts	4 Quarts
Barnyardgrass	<i>Echinochloa</i> spp.	1-2	3-4
Crabgrass, large	<i>Digitaria sanguinalis</i>	—	1-early 4
Croton, woolly	<i>Croton capitatus</i>	—	*
Dayflower, common	<i>Commelina communis</i>	—	1-2
Dock, curly	<i>Rumex crispus</i>	—	*
Foxtail	<i>Setaria</i> spp.	—	1-early 4
Goosegrass	<i>Eleusine indica</i>	—	1-early 4
Gulf Cockspur	<i>Echinochloa crus-pavonis</i>	—	1-early 4
Hemp Sesbania or Coffee Bean	<i>Sesbania exaltata</i>	—	*
Hoorahgrass or Fringerush	<i>Fimbristylis</i> spp.	—	1-early 4
Horned beakrush	<i>Rhynchospora comiculata</i>	—	*
Junglerice	<i>Echinochloa colonum</i>	—	1-early 4
Paragrass	<i>Panicum purpurascens</i>	—	1-early 4
Pigweed, redroot	<i>Amaranthus retroflexus</i>	—	*
Redweed	<i>Melochia corchorifolia</i>	—	*
Signalgrass, broadleaf	<i>Brachiaria platyphylla</i>	1-2	3-4
Smartweed, Pennsylvania	<i>Polygonum pensylvanicum</i> L.	—	1-early 4
Spikerush	<i>Eleocharis</i> spp.	—	1-early 4
Sprangletop (maximum 1 in. tall)	<i>Leptochloa</i> spp.	1-2**	1-2
Texas Millet	<i>Panicum Texanum</i>	—	1-early 4
Texasweed	<i>Caperonia palustris</i>	—	*

*For control of seedling broadleaf weeds.

**Suppression only in the states of Arkansas, Mississippi, Louisiana and Missouri.

MIXING PROCEDURES

Procedure for Testing the Compatibility of Arrosolo 3-3E in Tank mix Combinations

The following procedure is suggested for determining whether or not Arrosolo 3-3E may be combined with a specific herbicide for spray tank application.

Materials Required

- Arrosolo 3-3E
- Tank mix herbicides
- Adjuvant for spray tank mix combinations: CompexJ, Sponto 168-DJ , UniteJ, or equivalent. The adjuvant which provides the best emulsification depends on the specific herbicide under consideration.
- Two one-quart, wide mouth glass jars with lids or stoppers.
- Measuring spoons. A 25 mL pipette or graduated cylinder provides more accurate measurement. 1 tablespoon equals 3 teaspoons equals approximately 5 milliliters.
- Measuring cup, 8 ounces (237 mL).

Procedure

- Pour a pint or about 473 mL of water into each quart jar.
- Add adjuvant to one of the jars and mix. See Table 1 footnote for adjuvant rate.
- The order of addition of tank mix herbicides is wettable powders first, followed by wettable dispersible granules, followed by flowables, followed by Arrosolo 3-3E. See Table 2 for rates of tank mix herbicides to add to both jars.
- If the tank mix herbicide being tested is a wettable powder, premix the wettable powder in 1/8 cup of water prior to addition to the pint of water.
- Add Arrosolo 3-3E to both jars. See Table 1 for rate to use.
- Close both jars with lid or stopper and mix the contents by turning the jars upside down and back upright ten times.
- Inspect the surface and body of the mixtures:
 - Immediately after completing the jar inversions.
 - After allowing the jars to stand undisturbed for 30 minutes.
 - Again after turning the jars upside down and upright again ten times after the 30 minute wait.

Evaluation

- If a uniform mixture cannot be made, the mixture should not be used.
- If either mixture remains uniform for 30 minutes, the combination may be used.
- Should either mixture separate after 30 minutes, but readily remixes uniformly with ten additional jar inversions, the mixture can be used if adequate agitation is maintained in the tank.
- If the mixture with adjuvant is satisfactory, but the one without adjuvant is not, be sure to use the adjuvant in the spray tank.
- If adjuvant is needed, add to the spray tank first at a rate of 3 pts. per 100 gals. of water.
- Foaming can be minimized by using moderate agitation.
- If nondispersible oil, sludge or clumps of solids form in the mixture, the combination should not be used.

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Table 1
Rate Table for Arrosolo 3-3e and Adjuvant*

Gallons of spray volume to be applied per acre	Arrosolo 3-3e to add to 1 pint of water for 3 quart per acre rate		Arrosolo 3-3e to add to 1 pint of water for 4 quart per acre rate	
	ml	tsp.	ml	tsp.
10	34	7- ¹ / ₂	45- ¹ / ₂	9- ² / ₃
15	22- ³ / ₄	4- ³ / ₄	31	6- ¹ / ₂
20	17	3- ² / ₃	22- ³ / ₄	4- ³ / ₄
25	13- ² / ₃	3	18- ¹ / ₄	4
30	11- ¹ / ₃	2- ¹ / ₂	15- ¹ / ₄	3- ¹ / ₄
40	8- ¹ / ₂	1- ³ / ₄	11- ¹ / ₃	2- ¹ / ₂
50	6- ¹ / ₄	1- ¹ / ₂	9	2

* Two (2) ml or one-half (¹/₂) tsp. of adjuvant added to 1 pt. of water equals 3 pts. of adjuvant per 100 gals. of water.

Table 2
Rate Table for Other Tank Mix Herbicides

Gallons of spray volume to be applied per acre	Amount of dry herbicide to add for each pound to be applied per acre	Amount of liquid herbicide to add for each pint to be applied per acre	
	tsp.	ml	tsp.
10	² / ₃	1	¹ / ₄
15	1	1- ¹ / ₂	¹ / ₃
20	1- ¹ / ₅	2	² / ₅
25	1- ¹ / ₂	2- ¹ / ₂	¹ / ₂
30	1- ³ / ₄	3	² / ₃
40	2- ² / ₅	4	³ / ₄
50	3	5	1

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Compex™ is a trademark of Kalo, Inc.
Kleenguard™ is a trademark of Kimberly-Clark Corporation.
Sponto 168-D™ is a trademark of Witco Corporation.
Unite™ is a trademark of HACO, Inc.

US Patent No. 3,573,031.
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For non-emergency (e.g. current product information) call
Syngenta Crop Protection at 1-800-334-9481.

Product of the USA

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