

241-322

9/16/2003

1/12

United States Environmental Protection Agency

Mr. Craig D. Kleppe, PhD., Registration Scientist
BASF Corporation
26 Davis Drive,
Research Triangle Park,
North Carolina 27709-3528

SEP 16 2003

SUBJECT: Section 3 Registration for Application of Hydramethylnon to Pineapples (ID# - 2F02609) in accordance with the tolerances established per the Federal Register Vol. 68. No. 156 p. 48302-48312, August 13, 2003, and subsequent letter of agreement to satisfy the Agency's data requirements per the established tolerances.

Product Registration No: 241-322
Product Name: Amdro® Fire Ant Insecticide
Date of submission: August 26, 2003 and letter dated September 2, 2003 respectively

Dear Dr. Kleppe,

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted prior to releasing the product for shipment.

- 1. Outlined in a BASF Corporation. letter of commitment dated September 2, 2003, the following Agency data requirements must be satisfied by BASF Corporation. as follows:

Data requirement	Acceptable data to be submitted on or before the following dates:
Estuarine/marine Fish LC ₅₀ (sheepshead minnow) Guideline 72-1	December 31, 2005

CONCURRENCES

SYMBOL ▶	H7505C						
SURNAME ▶	RGEBKEN						
DATE ▶	Sep 16, 2003						

Data requirement	Acceptable data to be submitted on or before the following dates:
Estuarine/marine invertebrate EC ₅₀ (eastern oyster, mysid shrimp) Guideline 72-2	December 31, 2005
Sediment Toxicity Testing (chironomids, amphipods) Guidelines 850.1735 and 850.1740)	December 31, 2005

A stamped copy is enclosed for your records. If you have any questions, you may contact Richard J. Gebken, at (703) 305-6701.

Sincerely,



L
Linda Arrington
Acting Product Manager 10
Insecticide Branch
Registration Division (7505C)

enclosure

**AMDRO¹ Fire Ant Insecticide /
AMDRO¹ Granular Insecticide /
AMDRO¹ Pro Fire Ant Bait /
SIEGE[®] Pro Fire Ant Bait**

**KILLS IMPORTED AND NATIVE FIRE ANTS
and other ants**

KILLS THE QUEEN DESTROYS THE MOUND

Active Ingredient:	By wt.
Hydramethylnon: Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone (3-[4-(trifluoromethyl)phenyl]-1-(2-[4-(trifluoromethyl)phenyl]-ethenyl)-2-propenylidene)hydrazone	0.73%
Inert Ingredients.....	<u>99.27%</u>
Total.....	100.00%

EPA Reg. No. 241-322

EPA Est. No. 5905-AR-4

KEEP OUT OF REACH OF CHILDREN

CAUTION! / ;PRECAUCION!

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 Back Panel for Additional Precautionary Statements

**ACCEPTED
with COMMENTS
In EPA Letter Dated
SEP 16 2003**
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
241-322

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709



Net Weight: 4.5 lb. (2.0 kg)
25 lb. (11.3 kg)

[®] Registered Trademarks of BASF
Registered Trademarks of Excel Marketing, Inc.

Net Weight: 4.5 lb. (2.0 kg)
25 lb. (11.3 kg)

® Registered Trademarks of BASF

¹ Registered Trademarks of Excel Marketing, Inc.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

CAUTION!

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. May be harmful if swallowed

Personal Protective Equipment (PPE): Applicators and other handlers must wear:

- Long-sleeve shirt and long pants
- Chemical resistant gloves (such as rubber or waterproof gloves)
- Shoes plus socks

Follow manufacturer's 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.

Engineering Controls : 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

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

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. Call a poison control center 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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

Environmental Hazards: This product is toxic to fish. Do not apply directly 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. Do not apply when weather conditions favor drift from target areas.

General Information: AMDRO is a bait which is highly attractive to imported and native fire ants and other ants. Worker ants carry it into the mound as food for the colony. They eat it and feed it to the queen. AMDRO starts to kill ants immediately. In about a week the queen is dead, which destroys the mound.

Further information regarding ants may be obtained from your Cooperative Agricultural Extension Service.

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 by any method not specified on this label.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

The 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 rubber or waterproof gloves)
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

- Keep unprotected persons out of treated area during pesticide applications.

Outdoor Use: AMDRO granular insecticide controls imported and native fire ants and other ants, such as harvester ants, bigheaded ants and Argentine ant. AMDRO is for use on lawns, landscaped areas, golf courses, and other noncropland areas such as airports, roadsides, cemeteries, commercial grounds, parks, school grounds, picnic grounds, athletic fields and other recreational areas, as well as on grounds surrounding poultry houses (excluding runs and ranges) or corrals and other animal holding areas. Avoid direct exposure of animals to AMDRO granules.

AMDRO may be used in and around container or field-grown ornamental and non-bearing nursery stock, and on sod farms (commercial turf). AMDRO may also be applied to the soil around non-bearing fruit or nut trees. Do not harvest food/feed from non-bearing nursery stocks within one year of application.

Do not graze or feed lawn or sod clippings to livestock.

Treatment	Rate	Comments
Individual mounds: imported and native fire ants harvester ants bigheaded ants Argentine ant	2 to 5 level tablespoons	Distribute bait uniformly around the mound. Do not disturb the mound. Do not apply more than 2.0 lb. per acre. Do not contaminate kitchen utensils by use or storage.
Broadcast treatment: imported and native fire ants harvester ants	1.0 - 1.5 lb./acre [2.0 - 3.0 oz./5,000 square feet]	Broadcast bait uniformly with ground (granular spreaders) or aerial equipment.
Broadcast treatment: bigheaded ants Argentine ant	1.0 - 2.0 lb./acre [2.0 - 4.0 oz./5,000 square feet]	Broadcast bait uniformly with ground (granular spreaders) or aerial equipment.

Apply when ants are active (typically when soil temperature is greater than 60°F). Repeat applications as needed.

Grass Forage (Pasture and Rangeland) Use: AMDRO granular insecticide controls imported and native fire ants and other ants, such as harvester ants, bigheaded ants and Argentine ant. AMDRO may only be applied to grass forage (pasture and rangeland) for the control of fire ants only in the following states: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia. Use of AMDRO on grass forage in states other than those listed is unlawful. Reference the table below for application directions. Applications of AMDRO to grass forage may not exceed a maximum rate of 8.0 pounds per acre per year, and AMDRO may not be applied more than 4 times per year with minimum application intervals of 90 days. Do not cut and bale hay from pastures and rangeland treated with AMDRO until 7 days after the bait application is made. The restrictions on the use of AMDRO on cutting and baling hay do not apply when the treated pasture and rangeland is used solely to support companion animals (e.g., horses, llamas). These companion animals cannot be used for food or feed.

Treatment	Rate	Comments
Individual mounds: imported and native fire ants harvester ants bigheaded ants Argentine ant	2 to 5 level tablespoons	Distribute bait uniformly around the mound. Do not disturb the mound. Do not apply more than 2.0 lb. per acre. Do not contaminate kitchen utensils by use or storage.
Broadcast treatment: imported and native fire ants harvester ants	1.0 - 1.5 lb./acre [2.0 - 3.0 oz./5,000 square feet]	Broadcast bait uniformly with ground (granular spreaders) or aerial equipment.
Broadcast treatment: bigheaded ants Argentine ant	1.0 - 2.0 lb./acre [2.0 - 4.0 oz./5,000 square feet]	Broadcast bait uniformly with ground (granular spreaders) or aerial equipment.

Apply when ants are active (typically when soil temperature is greater than 60°F).

Pineapple Use: For use in pineapple fields and in uncultivated land surrounding pineapple fields to control bigheaded, Argentine and other pest ants.

<u>Treatment</u>	<u>Rate</u>	<u>Comments</u>
<u>Individual mound: imported and native fire ants bigheaded ants Argentine ant</u>	<u>5 level tablespoons</u>	<u>Distribute bait uniformly around the mound. Do not disturb the mound. Do not contaminate kitchen utensils by use or storage.</u>
<u>Broadcast treatment: imported and native fire ants</u>	<u>1.0 - 1.5 lb./acre/application</u>	<u>Broadcast by ground or aerial equipment (helicopter only) using disc or turbine blower type spreaders to all infested fields. Apply the first application approximately one month after planting. Apply AMDRO no more than 4 applications per 12-month period with minimum application intervals of 90 days.</u>
<u>Broadcast treatment: bigheaded ants Argentine ant</u>	<u>1.0 - 1.5 lb./acre/application for moderate infestations</u> <u>1.5 - 3.0 lb./acre/application for heavier infestations</u>	<u>Broadcast by ground or aerial equipment (helicopter only) using disc or turbine blower type spreaders to all infested fields. Apply the first application approximately one month after planting, and, as needed, every four months thereafter. Apply AMDRO no more than 4 applications per 12-month period with minimum application intervals of 90 days.</u>

Conduct ant surveys to monitor ant populations before and after treatments. Apply when ants are active (typically when soil temperature is greater than 60°F).

Do not exceed 6.0 lbs. of AMDRO per acre within any 12-month period.

Aerial applications are prohibited within 200 ft. of irrigation ditches, streams, ponds and public roadways, and 1000 ft. of residential areas.

Do not harvest within thirty (30) days after last application.

Do not make applications if it is likely to rain within an hour of application.

Green chop (leaves and crowns) shall not be fed to animals.

Indoor Use: AMDRO granular insecticide controls imported and native fire ants and other ants, such as harvester ants, bigheaded ants and Argentine ant. For use in homes, residential, commercial and other structures, and in the non-food/feed areas of institutional, warehousing and commercial establishments, such as groceries and supermarkets, hotels and motels, hospitals and nursing homes, schools, laboratories, computer facilities, food storage areas, sewers, transportation equipment, pet shops, or zoos, and in the inedible product areas of meat or poultry plants. Nonfood areas are areas

such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

Using a duster, or similar equipment, apply bait ONLY into cracks and crevices or other inaccessible areas such as, but not limited to, structural voids, unfinished attics or crawl spaces. Apply 0.25 to 0.5 ounce per crack, crevice or other inaccessible area where ants are entering the structure or where ants are nesting. Clean up any loose or excess bait. Apply evenly in unfinished attics and crawl spaces at a rate of 0.25 ounce per 100 sq. feet only if the space is secured or otherwise inaccessible to children or domestic animals.

Aerial Drift Management

Avoiding drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for drift. The applicator and the grower are responsible for considering all these factors when making decisions.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in Aerial Drift Reduction Advisory Information.

Aerial Drift Reduction Advisory

APPLICATION HEIGHT

Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety.

SWATH ADJUSTMENT

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, etc.)

WIND

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including equipment type, determine drift potential at any given speed. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from sensitive areas).

STORAGE AND DISPOSAL

Prohibitions: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Storage: Store in cool, dry, secure place and keep container tightly closed. Store container away from pets. This product is formulated in an oil bait. Prolonged exposure to air may turn oil rancid and reduce the attractiveness of the bait. Use within 3 months after opening.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

(for plastic packaging)

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

(for paper bags)

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

General: Consult Federal, State, or local disposal authorities for approved alternative procedures.

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation (BASF). All such risks shall be assumed by the user. BASF warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

BASF makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY.

In case of an emergency endangering life or property involving this product,
call day or night 800-832-HELP.

NVA 2002-04-166-0179