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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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JUL 25 1994

Mr. Peter S. Winn  
White Mountain of America, Inc.  
202 North Avenue, Suite 102  
Grand Junction, CO 81501

Dear Mr. Winn:

Subject: Amendment - Addition of Sites and Pests  
Melocide DE-100  
EPA Registration No. 65789-1  
Your Submissions Dated April 15 and August 30, 1993

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 4 when the Agency requires all registrants of similar products to submit such data.

2. Make the labeling changes listed below before you release the product for shipment:

a. On back panel #3, revise the sentence in the last paragraph which reads "Dust is harmless to plants, but excessive dust will retard growth." to read as follows, "Dust should not harmful to plants, but excessive dust will retard growth."

3. Submit five copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Sincerely yours,

George T. LaRocca  
Product Manager 13  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Enclosure		CONCURRENCES					
SYMBOL							
SURNAME							
DATE							

## MELOCIDE DE-100

For Control Of Crawling Insects

In Stored Grain and Seeds  
For Domestic Use  
For Commercial Use

→ For Control of Crawling Insects, Spiders and Scorpions  
In Living and Working Spaces  
For Domestic Use  
For Commercial/Industrial Use  
For Use by Pest Control Operators

→ For Control of Slugs, Snails, Spiders and Crawling Insects  
On Lawns, Gardens and Ornamental Plants  
For Domestic Use

The first page is the Front Panel of the label. The remaining pages contain Back Panel Directions for Use for different customers for three different end uses.

Front Panel: lists ingredients and precautionary statements. This page will be the same for each container, regardless of use, except the non-applicable title and subtitle(s) will be deleted as described below:

Back Panel #1: lists directions for use for grain and seed storage. This page will be used only on containers sold for use to control of insect pests in stored grains and seeds. The other Front Panel titles with subtitles will be deleted. Either or both of the subtitles "For Domestic Use" and "For Commercial Use" may appear on the Front Panel and Back Panels. If only one subtitle is used, only the appropriate section under Directions will be shown on Back Panel.

Back Panel #2: lists directions for use for living and working spaces. This page will be used only on containers sold for use to control insect pests in and around living and working spaces. The Front Panel title "In Stored Grains and Seeds", with subtitles, will be deleted. Any or all of the subtitles "For Domestic Use", "For Commercial/Industrial Use", and "For Use by Pest Control Operators" may appear on the Front and Back Panels. Regardless of the subtitle used, the entire Back Panel Directions will be shown on the Back Panel. The Front Panel title "On Lawns, Gardens and Ornamental Plants" will be deleted on containers sold for commercial or PCO use. This title may be retained on containers sold for domestic interior use.

Back Panel #3: lists directions for use on lawns, gardens and ornamental plants. This page will be used only on containers sold for use to control insect pests on home and garden plants. The Front Panel title "In stored grain and seeds", with subtitles, will be deleted. The Front Panel title "In Living and Working Spaces" will be deleted for commercial and PCO use, but may be retained for domestic use. Regardless of the titles used, the entire Back Panel Directions will be shown on the Back Panel.

Note: Font size for the signal word CAUTION and for precautionary statement KEEP OUT OF REACH OF CHILDREN will conform to requirements in 40 CFR 156.10(h) (1) (E) (iv).

Melocide DE-100

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

JUL 25 1994

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

65-189-1

## MELOCIDE DE-100

For Control of Crawling Insects

In Stored Grain and Seeds

(Back Panel #1)

For Domestic Use

For Commercial Use

For Control of Crawling Insects, Spiders and Scorpions

In Living and Working Spaces

(Back Panel #2)

For Domestic Use

For Commercial/Industrial Use

For Use by Pest Control Operators

For Control of Slugs, Snails, Spiders and Crawling Insects

On Lawns, Gardens and Ornamental Plants

(Back Panel #3)

For Domestic Use

MELOCIDE DE-100 contains dried, milled diatomaceous earth that is obtained from a freshwater diatomite deposit containing the fossil shells of diatoms. Diatoms are a type of algae that produce shells made of amorphous silica. The Melosira diatoms that make up this product are among the smallest of the species of diatoms. Melocide DE-100 is odorless and non-staining.

This type of insect control is physical rather than chemical. The microscopic fossils damage the skin, joints and mouthparts of the insect and absorb body fluids. Insects die within one to two days from dehydration. Insects have not developed resistance or immunity to this type of control.

## CONTENTS

## ACTIVE INGREDIENTS:

Silicon dioxide from diatomaceous earth\* 83.6%

Other oxides from diatomaceous earth\* 16.4%

TOTAL: 100.0%

\* Diatomate TM

KEEP OUT OF REACH OF CHILDREN

CAUTION

## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND ANIMALS

CAUTION: Avoid breathing dust. Avoid contact with eyes. Use with adequate ventilation. For commercial and/or prolonged application wear a suitable dust mask approved by NIOSH/MSHA.

## STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

## STORAGE AND DISPOSAL

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

Storage: Store in original container in a dry place.

Pesticide disposal: Wrap container and put in trash collection or dispose in approved disposal facility.

Container disposal: Triple rinse and recycle plastic container, or wrap and place in trash.

In case of minor spill: Vacuum, or dampen powder with water and sweep. Dispose of in trash.

In case of major spill: Wear respirator while wetting and loading powder into containers. Dispose of in landfill.

## WARRANTY STATEMENT

WHITE MOUNTAIN OF AMERICA, INC. warrants that this product conforms to the ingredient statement on this label. Since conditions of use, such as moisture, compatibility with other chemicals and conditions of application will vary, White Mountain of America makes no claims other than those stated on this label.

MANUFACTURED BY WHITE MOUNTAIN OF AMERICA, INC.

P.O. Box 386

Eldora, IA 50627

EPA Registration No. 65789-1

EPA Establishment No. 65789-IA-001

Net Weight

Batch No.

BEST AVAILABLE COPY

## MELOCIDE DE-100

For Control of Crawling Insects  
In Stored Grain and SeedsFor Domestic Use  
For Commercial Use

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

When used as directed, death of crawling insects in stored grains and seeds continues throughout the storage period and, after storage, grains or seeds can be used as intended without removal of MELOCIDE DE-100.

If this product, grain or seed are damp before application, do not use. Reduced effectiveness will result if this product or the grain or seed become damp after application. If this occurs, dry grain or seed and reapply Melocide DE-100.

MELOCIDE DE-100 is approved for use in the following stored grains and seeds:

barley	corn	rice	sorghum (milo)
buckwheat	oats	rye	wheat
beans	flax	peas	soybeans
vegetable and flower seeds			birdseeds

When used as directed, MELOCIDE DE-100 effectively kills the following crawling insects:

rice weevils	saw-toothed grain beetles
lesser grain borers	red flour beetles
flat grain beetles	confused flour beetles
merchant grain beetles	Indian meal moth larvae
granary weevil	maize weevil
mealworm beetle	spider beetle
bean weevil	pea weevil
Mediterranean flour moth larvae	

Directions for Domestic Use: One cup of MELOCIDE DE-100 is sufficient for each 25 pounds of dry grain or seed. Solar dry or oven dry (warm setting) grain or seed for a few hours before mixing. Thoroughly mix 1/2 cup with 12 pounds of material at a time in the storage container to insure good distribution throughout the stored material and container walls. Seal container to prevent contamination with moisture. Wear gloves during mixing, or wash hands after mixing.

Directions for Commercial Use: MELOCIDE DE-100 can be used in any dry container where grain and seed are transported or stored, such as silos or elevators, rail cars, ships, truck trailers, and appropriate cans, drums or packages. It provides maximum control when the moisture content of stored grain or seed is 12-15% or less. Long term effectiveness is improved if temperature during storage is high enough to hatch all insect eggs.

MELOCIDE DE-100 should be applied lightly in cracks and crevices in the interior walls of the dry, empty transportation container or storage area using a dust blower. MELOCIDE DE-100 may be applied to grain or seed at any stage of preparation or transportation after drying and before storage. Two to seven pounds of powder should be mixed thoroughly with each ton of dry grain or seed to be stored. A hopper with a variable rate auger or conveyor feeder can be used to apply MELOCIDE DE-100 during transfer of material into transportation containers or to the storage area.

Test weight per bushel of seed or grain treated with MELOCIDE DE-100 will be reduced slightly, but this reduction in bulk density should not cause the treated material to be reduced to sample grade if the USDA procedures in GR Instruction 918-6 Aux. 1 dated May 9, 1963 are followed. Stored material treated with MELOCIDE DE-100 will be coated with dust, which may reduce movement speed.

**BEST AVAILABLE COPY**

For Control of Crawling Insects, Spiders and Scorpions  
In Living and Working Spaces

For Domestic Use  
For Commercial/Industrial Use  
For Use by Pest Control Operators

FOR USE INDOORS AND OUTSIDE

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

MELOCIDE DE-100 is approved for use in and around locations such as the following:

homes/apartments      motels/hotels      theaters/auditoriums  
kennels/barns/nurseries      offices/warehouses/factories  
restaurants/grocery stores      malls/stores/public areas  
hospitals/nursing homes (non-occupied patient areas)  
schools/day care areas (non-child occupied areas)  
food/feed handling/packaging/transportation/storage areas  
public/commercial transportation premises/vehicles/carriers  
colleges/universities/public buildings  
other dry interior spaces

When used as directed, MELOCIDE DE-100 effectively kills the following crawling insects and arachnids in infested areas:

cockroaches	silverfish	ants
crickets	houseflies	ticks
bag worms	box elder bugs	fleas
bed bugs	carpet beetles	earwigs
millipedes	centipedes	slugs
caterpillars	potato beetles	snails
spiders	scorpions	mites

When used according to directions, death of crawling insects and arachnids in infested areas continues until product is depleted, dampened or removed. Remove dust with vacuum, mop, sponge or by sweeping dampened dust. Repeat as necessary.

MELOCIDE DE-100 should be lightly applied to any area where crawling insect pests hide or run. Treated areas should be dry. Direct contact with dry dust is required for control. The puff bottle container is ideal for general application. A straw may be inserted in aperture to aid in application to restricted spaces. Avoid introducing dust into air. Do not apply where children or patients can contact dust.

If this product is damp before application, do not use. If this product or treated areas become damp after application, clean, dry and retreat area with dust.

Food and feed areas: In areas where food or feed is received, processed (including enclosed processing systems), packed (bottled, boxed, canned, wrapped), transported, stored (including waste), prepared, or served, application is limited to crack and crevice and spot treatments only. All food or feed should be removed or covered before treatment.

Apply MELOCIDE DE-100 sparingly into cracks and crevices using equipment designed to place powder in specific locations. Treat open spaces below floors, above ceilings, within walls, under stairs, underneath and behind equipment or appliances, around pipes, under sinks, in utility closets, around garbage cans, etc.

No individual spot will exceed two (2) square feet. Limit spot treatments to wall or floor surfaces where pests have been seen or where pests are suspected of hiding.

Non-food/feed areas: Use crack and crevice and spot treatments as described above. Also apply MELOCIDE DE-100 to other interior spaces where pests hide, run or land, such as attics and spaces above suspended ceilings, garages, porches, utility rooms, storage rooms, basements and crawl spaces, cracks, baseboards, moldings and doorframes, corners in closets, cabinets and shelves, windowsills and frames, under and behind furniture and appliances, etc. Work into and apply under carpets, rugs, doormats, couches, and other furniture. Wash bedding for pets and apply dust to dry bedding and surrounding areas. Apply to mattresses and bed frames. Outdoors, apply to window and door frames, covered entrances and porches, and along foundations where dust will remain dry.

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For Control of Slugs, Snails, Spiders and Crawling Insects  
On Lawns, Gardens and Ornamental Plants

For Domestic Use

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

MELOCIDE DE-100 is approved for use on lawns, gardens and ornamental plants, outdoors, in greenhouses and indoors. It can be used up to and including the day of harvest. It must be applied as a dry dust directly to the insect pests to be effective.

Apply to outdoor or greenhouse plants at dusk or in early evening to minimize injury to beneficial insects. Avoid applying dust on rainy, windy or extremely humid days, or when plants are wet. Avoid irrigating with sprinkler or spraying other liquids for one day after application.

MELOCIDE DE-100 may be used on the following types of plants:

Root and tuber vegetables and their leaves, Bulb vegetables, Leafy vegetables, Head forming vegetables, Legumes (seeds and leaves), Fruiting vegetables, Squash, melon and cucumber vegetables, Berry plants, Subtropical fruits, Peanuts, Grain producing plants, Lawn turf and other ground cover plants, Herbs and spices, Flowering and other Ornamental plants, and other plants such as artichokes, asparagus, coffee, cotton, grapes, hops, pineapples, sunflowers, tea and small fruit and nut trees (under 7 feet').

MELOCIDE DE-100 controls slugs, snails, arachnids and crawling insects such as the following when dry dust is applied directly to them:

Ants, Aphids, Army Worms, Asparagus Beetle, Blister Beetle, Boll Weevil, Bollworm, Budworm, Cabbage Looper, Caterpillars, Cockroaches, Colorado Potato Beetle, Corn Earworm, Crickets, Cross-stripped Cabbageworm, Cucumber Beetle, Diamondback Moth Larvae, European Corn Borer, Fireworm, Flea Beetle, Fruit Flies, Gypsy Moth, Harlequin Bug, Horn Worm, Imported Cabbageworm, Leafhopper, Leaf Rollers, Leaf Tier, Lice, Mexican Bean Beetle, Mites, Pea Curculio, Peach Borer, Pecan Weevil, Plume Moth, Psyllids, Sap Beetle, Silverfish, Skippers, Stink Bug, Tanabinids, Tarnished Plant Bug, Webworm, and Whiteflies.

Thoroughly dust infested plants using puff bottle. Cut off tip of applicator. A straw may be inserted into tip to introduce dust into thick foliage. Be sure to cover stem and underside of leaves. Brush or shake off excess dust. If leaves remain dusty after two days, spray with water to remove dust. Dust is harmless to plants, but excessive dust will retard growth. Re-apply if insects return. A six ounce bottle should cover at least 200 square feet.

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