

Reg # 65789-1 PM-13

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US ENVIRONMENTAL PROTECTION AGENCY  
 OFFICE OF PESTICIDES PROGRAMS  
 REGISTRATION DIVISION (75-767)  
 WASHINGTON, DC 20460

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
 and Rodenticide Act, as amended)

EPA REGISTRATION NO. 65789-1

DATE OF ISSUANCE AUG 14 1992

TERM OF ISSUANCE  
 Until Reregistration

NAME OF PESTICIDE PRODUCT  
 Melocide DE-100

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Melosira DE Products, Inc.  
 202 North Avenue, #102  
 Grand Junction, CO 81501

161 5422676  
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NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) since you have agreed to:

1. Submit the primary eye irritation (81-4) to be in compliance with the Silicon Dioxide/Silica Gel Reregistration Eligibility Document issued February 7, 1992.
2. 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.
3. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase, "EPA Registration No. 65789-1".
4. 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.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL \_\_\_\_\_ DATE \_\_\_\_\_

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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.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager 13  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

)  
Enclosure

Comments regarding attached draft label for:

MELOCIDE DE-100

For Control Of Crawling Insects

In Stored Grain and Seeds  
For Residential Use  
For Commercial Use

In Interior Living and Working Spaces  
For Residential Use  
For Commercial/Industrial Use  
For Use by Pest Control Operators

The attached three page label is a master label for this product. The first page is the Front Panel of the label. The second two pages contain Back Panel directions for use for different customers for two 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 Front Panel title "In Interior Living and Working Spaces", with subtitles, will be deleted. Either or both of the subtitles "For Residential" 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 interior living and working spaces. This page will be used only on containers sold for use to control insect pests in interior 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 Residential 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.

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).

**BEST AVAILABLE COPY**

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

AUG 14 1992

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

65789-1

For Control Of Crawling Insects

In Stored Grain and Seeds (Back Panel #1)  
 For Residential Application  
 For Commercial Use

In Interior Living and Working Spaces (Back Panel #2)  
 For Residential Use  
 For Commercial/Industrial Use  
 For Use by Pest Control Operators

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 predominately of amorphous silica. The Melosira diatoms that make up this product are among the smallest of the species of diatoms.

This type of insect control is physical rather than chemical. The microscopic fossils damage the membrane that covers moving parts of the insect. Death results from dehydration due to the ability of the diatom shells to absorb body fluids.

## CONTENTS

ACTIVE INGREDIENT:		
Silicon dioxide		83.6%
INERT INGREDIENTS:		
Other oxides and moisture		16.4%
TOTAL:		100.0%

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

Store in original container in a dry place. Do not reuse empty container. Wrap container and put in trash collection. Do not contaminate water, food or feed by storage or disposal.

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.

In case of emergency: Call (800) 424-9300.

## WARRANTY STATEMENT

MELOSIRA DE PRODUCTS, 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, Melosira DE Products makes no claims other than those stated on this label.

MANUFACTURED BY MELOSIRA DE PRODUCTS, INC.

P.O. Box 97  
 Westfall, OR 97220

EPA Registration No. 5273-1  
 EPA Establishment No. 5273-1-50R-1

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Draft Master Label

Back Panel #1

MELOCIDE DE-100

DIRECTIONS FOR USE

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

In Stored Grain and Seeds

For Residential Application  
For Commercial Use

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

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

Directions for residential application: 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, 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. 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 Aug. 1 dated May 9, 1963 are followed. Stored material treated with MELOCIDE DE-100 will be coated with dust, which may reduce movement speed.

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Draft Master Label

Back Panel #2

MELOCIDE DE-100

DIRECTIONS FOR USE

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

In Living and Working Spaces

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

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

- |  |               |            |
|--|---------------|------------|
| homes                                      | apartments    | offices    |
| motels/hotels                              | restaurants   | warehouses |
| theaters                                   | kennels/barns | factories  |
| hospitals (non-occupied patient areas)     |               |            |
| nursing homes (non-occupied patient areas) |               |            |
| food/feed producing establishments         |               |            |
| other dry interior spaces                  |               |            |

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

- |             |                |       |
|-------------|----------------|-------|
| cockroaches | silverfish     | ants  |
| crickets    | houseflies     | ticks |
| elm bugs    | box elder bugs | fleas |

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

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 half-pound 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: For roaches, crickets, silverfish, elm bugs, box elder bugs, houseflies and ants, 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 in baseboards, mouldings and doorframes, corners in closets, cabinets and shelves, windowsills and frames, under and behind furniture and appliances, etc. Work into and apply under rugs, doormats, couches, etc.

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