

United States Environmental Protection Agency
Washington, D.C. 20460

OCT 13 1993

Office of
Prevention, Pesticides and
Toxic Substances

Lesley Palmer Czochoz
NOR-AM CHEMICAL COMPANY
3509 SILVERSIDE ROAD
WILMINGTON DE 19803

Subject: Label Amendment Submission of 06/14/93
in Compliance with WPS Labeling Requirements
EPA Reg No. 45639-76
SPIN-AID

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)

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Office of Pesticide Programs (H-7504C)
U.S. Environmental Protection Agency
401 M Street SW
Washington, DC 20460-0001

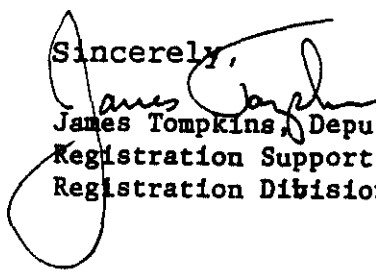
Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL)
Room 266A Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,


James Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

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OCT 13 1993
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
45639-26

PRECAUTIONARY STATEMENTS

**Hazards to Humans
(and Domestic Animals)**

WARNING

HARMFUL IF SWALLOWED. MAY PRODUCE SEVERE IRRITATION OF EYES AND IRRITATION OF SKIN. AVOID BREATHING SPRAY MIST. AVOID CONTACT WITH SKIN AND EYES.

Do not apply when weather conditions favor drift from treated areas.

AVOID CONTAMINATION OF FEED AND FOOD-STUFFS.

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 B on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- * Long-sleeved shirt and long pants
- * Chemical resistant gloves such as barrier laminate or butyl rubber
- * Shoes plus socks

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.

ENGINEERING CONTROLS STATEMENT: 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.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

STORAGE: Store in original container and keep closed. Store in a cool, dry place. Do not use or store near heat or open flame.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

IN CASE OF FIRE, LEAKY, OR DAMAGED CONTAINERS, OR OTHER EMERGENCY, REPORT AT ONCE BY TOLL-FREE TELEPHONE TO 800-424-9300.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read the entire Directions for Use before using this product. 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 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
- * Shoes plus socks

GENERAL INFORMATION

SPIN-AID® is a selective postemergence herbicide for use in spinach (grown for processing and seed) and red (table) beets.

Note: Use SPIN-AID on spinach only when temperatures are below 75°F in order to prevent possible injury. SPIN-AID is effective for control of the following weeds:

Wild mustard *Brassica kaber*
Common lambsquarters *Chenopodium album*
Shepherdspurse *Capsella bursa-pastoris*
London rocket *Sisymbrium irio*
Nettleleaf goosefoot *Chenopodium murale*
Groundcherry *Physalis lanceifolia*
Coast fiddleneck *Amsinckia intermedia*
Common chickweed *Stellaria media*
Purslane *Portulaca oleracea*
Common ragweed *Ambrosia artemisiifolia*
Annual sowthistle *Sonchus oleraceus*

For best results, spray when the weeds are at the two-leaf stage.

USE PRECAUTIONS

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

DO NOT APPLY SPIN-AID TO SPINACH LATER THAN 40 DAYS PRIOR TO HARVEST. DO NOT APPLY SPIN-AID TO RED BEETS LATER THAN 60 DAYS PRIOR TO HARVEST.

SPIN-AID MAY CAUSE INJURY IF THE CROP IS UNDER STRESS FROM ONE OR MORE OF THE FOLLOWING CONDITIONS:

Rapid climatic changes from cool, overcast days, to hot (75°F or over), bright days. Windy conditions or drought.

Use of a preplant or preemergence herbicide or other chemicals.

Insect or disease injury.

Close cultivation.

If stress conditions are present, delay application in order to give plants a chance to recover.

If extreme weather conditions are of short duration, delay spraying until the end of such a period.

If SPIN-AID applications must be made on days with extreme temperature and/or brightness, delay spraying until evening.

DO NOT OVERTREAT: The use of higher than recommended rates may cause injury.

Do not spray while dew is present.

Rainfall within 6 hours of spraying may reduce weed kill. Do not allow spray drift to contact adjacent crops which may be injured by spray drift.

IMPORTANT

SPIN-AID may cause temporary growth retardation and/or chlorosis or tip-burn. Crops usually resume normal growth within 10 days.

When used as directed, SPIN-AID is selective in spinach and red beets past the 4-6 true leaf stage.

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Crops may be severely injured if treated before the 4-6 true leaf stage. The stage of growth of the weeds is very important for satisfactory control.

For best results, spray when the weeds are at the two-true leaf stage. Best results are obtained when the weeds are actively growing and are not under water or heat stress.

MIXING THE SPRAY: MAKE SURE THE SPRAYER IS CLEAN.

SPIN-AID is an emulsifiable concentrate. The formulation contains sufficient wetting agents for optimum coverage. Do not add additional wetting agents or other spray adjuvants. Add sufficient water to fill the lines. Then add the desired amount of SPIN-AID and the remaining quantity of water with the bypass agitator running. Bypass agitation is sufficient. Mechanical agitation is not necessary. Only use freshly prepared spray emulsions.

Always spray immediately after preparing the spray solution. Prepare only enough spray solution to last less than four hours.

RATE OF APPLICATION

* **By Ground:** Apply SPIN-AID at the rate of 3 to 6 pints per acre in 11 to 22 gallons of water broadcast basis. For band application, see dosage chart. TOO MUCH WATER MAY CAUSE PRECIPITATION.

* **By Air:** Apply SPIN-AID at the rate of 3 to 6 pints per acre using 5 to 20 gallons of spray per acre.

Use a maximum of 6 pints per acre per year with a split application of 2½-3 pints at the 2-leaf stage of spinach instead of the 4-6 true-leaf stage and the repeat application of 3 pints, 4-6 days later.

Use the 6 pint rate only on well-established crops which are not under stress. Avoid phytotoxic spray drift to non-target crops during application of SPIN-AID.

DO NOT APPLY WHEN WIND SPEED IS OVER 10 MILES PER HOUR. AVOID APPLICATIONS WHEN CONDITIONS FAVOR DRIFT.

For further information, contact your County Agricultural Agent, Farm Advisor or NOR-AM Chemical Company.

DOSAGE CHART FOR BAND APPLICATIONS

| Broadcast Equivalent | Band Rate | |
|----------------------|------------|-----------------|
| | Band Width | Row Spacing 26" |
| 3 pints/acre | 5" | 9.2 fl. oz. |
| | 7" | 12.9 fl. oz. |
| 6 pints/acre | 5" | 18.5 fl. oz. |
| | 7" | 25.8 fl. oz. |

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IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather and soil conditions, manner of use and other factors beyond NOR-AM Chemical Company's control, it is impossible for NOR-AM to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OR MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NOR-AM Chemical Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. UNDER NO CIRCUMSTANCES SHALL NOR-AM CHEMICAL COMPANY BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES, OR DAMAGE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT NOR-AM'S ELECTION, THE REPLACEMENT OF PRODUCT.

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