

PM 23 458-223

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 11 1995

Gary R. Sandberg
Elf Atochem North America, Inc.
2000 Market Street - 21st Floor
Philadelphia, PA 19103

Dear Mr. Sandberg:

Subject: Revised Labeling - Remove Skull and Crossbones
Herbicide 273 Sugar Beet Herbicide
EPA Registration No. 4581-223
Your Submission Dated January 25, 1995

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

- 1) Rewrite the Precautionary Statements to read as follows:
"Corrosive. Causes irreversible eye damage. May be fatal if swallowed or inhaled. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Do not breathe spray vapors."
- 2) Add the requirement for a MSHA/NIOSH approved dust/mist filtering respirator to the list of personal protective equipment for early reentry listed in the Agricultural Use Requirements box.

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

DK-305-7546: FIB/PM 23		CONCURRENCES					
SYMBOL	7505C						
SURNAME	D. KENNY						
DATE	7/11/95						

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HERBICIDE 273

SUGAR BEET HERBICIDE

ACTIVE INGREDIENT:		
Dipotassium salt of endothal*	40.3%
INERT INGREDIENTS:	59.7%
TOTAL	100.0%

*7-oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid equivalent 28.6%
This product contains 4.23 lbs. dipotassium endothal per gallon
(equivalent to 3 lbs. endothal)

KEEP OUT OF REACH OF CHILDREN

DANGER

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).

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

NOTE TO PHYSICIAN: Measures against circulatory shock, respiratory depression, and convulsion may be needed.

See Back Panel for Precautionary Statements.

For General Information and Directions for Use refer to Accompanying brochure.

EPA Registration No. 4581-223

EPA Establishment No. 228-IL-1

Net Contents 1 U.S. Gallon/3.8 Liters

Sold by:

ELF ATOCHEM NORTH AMERICA, INC.

Agchem Division

2000 Market Street, Philadelphia, PA 19103

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EPA REC'D 7/11/95 2

ALLIED
with COMMENTS
In EPA Letter Dated
JUL 11 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
4581-223

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.

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 48 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

GENERAL INFORMATION

HERBICIDE 273 is a liquid formulation which mixes readily with water for use in the control of cheatgrass, redroot, or pig weed, Kochia, foxtails, burclover, blueweed (henbit), Texas blueweed, volunteer barley, wild buckwheat, barnyardgrass, buffgrass, annual bluegrass, ragweed, purslane, smartweed, wild carrot, volunteer sunflowers, and shephardspurse in sugar beets.

Mix the recommended amounts of HERBICIDE 273 listed in the tables below in 2 to 15 gallons of water per acre for aerial application and in 10 to 40 gallons of water per acre for ground equipment.

The material is known to be phytotoxic to a wide variety of plants, especially strawberries. For aerial application a 50-foot buffer zone downwind from the wing edge is recommended to avoid injury to desirable plants. Apply when there is a positive wind of less than 10 mph. A height of 6 to 10 feet over the crop is recommended. Keep nozzle pressure below 40 psi.

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

PRE-EMERGENCE APPLICATIONS

Field test have shown that best pre-emergence results are obtained when HERBICIDE 273 is sprayed onto the seed bed during planting in a manner that spray would be incorporated into the soil not exceeding 1/4 inches deep. High moisture content of soil is essential for best weed control. Apply before sugar beets emerge from the soil.

HERBICIDE 273 PER ACRE*

BROADCAST RATES	BANDS RATES-PINTS			
	Band Width	Row Spacing		
		22"	28"	32"
1.0-2.2 Gallons/Acre	5"	2.0-4.0	1.5-3.0	1.25-3.0
	7"	2.5-5.5	2.0-4.5	1.75-4.0
	10"	3.5-8.0	3.0-6.5	2.5 -5.5

*NOTE: For fine soils, use the lower rate. For use on the soils of Eastern Colorado and Western Nebraska, apply 1.5 to 3 pints HERBICIDE 273 for 7 inch band application on rows 22 inches wide. Adjust rate proportionately for other band widths and row spacings.

POST-EMERGENCE APPLICATIONS

Make application when the sugar beets have 2 to 4 true leaves (do not count the cotyledonary leaves, which are the first 2 leaves to appear). Under certain weather conditions, some temporary marginal leaf burn may occur to the sugar beets, especially at the higher rates, but recovery is normally rapid. For best results, apply when the temperature is between 60°F and 80°F. Do not apply later than 60 days after sugar beet emergence.

HERBICIDE 273 PER ACRE*

BROADCAST RATES	BANDS RATES-FLUID OUNCES			
	Band Width	Row Spacing		
		22"	28"	32"
1-2 Quarts/Acre	5"	7-15	3-11	5-10
	7"	10-20	8-16	7-14
	10"	15-29	11-23	10-20

*NOTE: Use the lower rates of HERBICIDE 273 when the sugar beets have only 2 true leaves, or when spraying very susceptible weeds such as smartweed or wild buckwheat at early growth stage (2 to 4 true leaves).

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**TANK MIXES OF HERBICIDE 273 AND
SELECTED HERBICIDES**

Rates of Application—See Example Below

FOR POST-EMERGENCE USE ON SUGAR BEETS ONLY

Follow all directions and precautions that appear on both product labels. In addition to the weeds previously mentioned, tank mix combinations of HERBICIDE 273 plus one of the herbicides listed below will control a broader spectrum of annual broadleaf weeds and seedling grasses than either herbicide used alone. For best results, apply when sugar beets are at the 4 to 6 true leaf stage, and when the weeds are actively growing and are not under water or heat stress. Since leaf burn may occur, do not apply tank mixes before sugar beets have 4 expanded true leaves. Injury will occur if applied when the temperature exceeds 85°F.

Mixing Directions—Fill the sprayer tank half full with water. Start agitation with mechanical or good hydraulic agitator. While agitating, add the required amount of HERBICIDE 273 followed by the required amount of one of the other herbicides listed below. Add the remaining quantity of water with the bypass agitator running. Mix only the amount of spray that will be used immediately.

HERBICIDE 273 PLUS BETAMIX®—Controls seedlings of annual broadleaf and grassy weeds such as knotweed, lambsquarters, nightshade, mustard, London rocket, goosefoot, groundcherry, fiddleneck, chickweed, and green and yellow foxtail. Do not add any wetting agents or other spray adjuvants. Do not apply later than 90 days prior to harvest.

HERBICIDE 273 PLUS BETANEX®—Controls seedlings of annual broadleaf weeds, such as lambsquarters, mustard, nightshade, goosefoot, and London rocket. Do not add any wetting agents or other spray adjuvants. Do not apply later than 90 days prior to harvest.

HERBICIDE 273 PLUS PYRAMIN FL —Controls seedlings of annual broadleaf weeds, such as lambsquarters, mustard, fanweed, nightshade, nettleleaf, and goosefoot. Use 50 mesh screens in the line. Do not add any wetting agents or other spray adjuvants.

POST-EMERGENCE HERBICIDE	BAND RATES PER ACRE PINTS/POUNDS				
	BROADCAST RATES PER ACRE	Band Width	Row Spacing		
			22"	28"	32"
HERBICIDE 273	2-3 pints	5"	0.5-0.7	0.4-0.6	0.3-0.4
		7"	0.7-1.0	0.5-0.8	0.5-0.7
		10"	0.9-1.3	0.7-1.1	0.6-0.9
BETAMIX	4.5-7.5 pints	5"	1.1-1.7	0.8-1.2	0.7-1.1
		7"	1.5-2.5	1.1-1.9	1.0-1.6
		10"	2.0-3.4	1.6-2.6	1.4-2.2
BETANEX	4.5-7.5 pints	5"	1.1-1.7	0.8-1.2	0.7-1.1
		7"	1.5-2.5	1.1-1.9	1.0-1.6
		10"	2.0-3.4	1.6-2.6	1.4-2.2
PYRAMIN FL	6-7 pints	5"	1.3-1.6	1.0-1.2	0.9-1.1
		7"	1.9-2.2	1.5-1.8	1.3-1.5
		10"	2.7-3.2	2.1-2.5	1.8-2.2

NOTE: Use the low rates for fine soils or when the temperature exceeds 80°F.

Example: **BROADCAST TREATMENT**—Tank mix 2 to 3 pints of HERBICIDE 273 and 4.5 to 7.5 pints of BETAMIX per acre.

BAND TREATMENT—For a 10" band and 32" row spacing tank mix 0.6 to 0.9 pints of HERBICIDE 273 and 1.4 to 2.2 pints of BETANEX per acre.

*BETAMIX is a registered trademark of AgrEvo

*BETANEX is a registered trademark of AgrEvo

*PYRAMIN is a registered trademark of BASF Corporation

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PRECAUTIONARY STATEMENTS
Hazards To Humans (And Domestic Animals)

DANGER

Corrosive, causes eye damage. Do not get in eyes. Wear goggles or face shield when handling. May be fatal if swallowed or inhaled. Do not breathe spray vapors. Harmful if absorbed through skin. Avoid contact with clothing.

PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- Dust/mist filtering respirator (MSHA/NIOSH) approval number prefix TC-21C)

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 product is toxic to wildlife.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

STORAGE AND DISPOSAL

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

STORAGE INSTRUCTIONS: Store in the original container. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. Storage at temperatures below 32°F may result in the product freezing or crystallizing. Should this occur the product must be warmed to 50°F or higher and thoroughly agitated. In the event of a spillage during handling or storage, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal Instructions listed below.

PESTICIDE DISPOSAL INSTRUCTIONS: Pesticide wastes are acutely hazardous. 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 INSTRUCTIONS: 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.

WARRANTY AND DISCLAIMER

Elf Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

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