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PM 25
464-615

TANDEM Herbicide
Proposed Labeling
September 23, 1986



TANDEM* Herbicide

For Postemergence Weed Control in Field Corn

ACTIVE INGREDIENT:

Tridiphane [2-(3,5-dichlorophenyl)-2-(2,2,2-trichloroethyl)oxirane] 43.6

INERT INGREDIENTS: 56.4

Contains petroleum distillates
Contains 4.0 pounds of tridiphane per gallon

ACCEPTED
OCT 30 1986
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 464-615

EPA Registration No. 464-

EPA Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

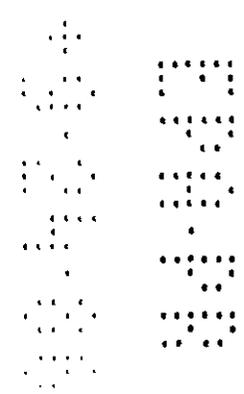
WARNING

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY
MAY CAUSE ALLERGIC SKIN REACTION
HARMFUL IF SWALLOWED
HARMFUL IF INHALED
MAY BE FATAL IF ABSORBED THROUGH SKIN

*Trademark of The Dow Chemical Company



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Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling and mixing. Do not take internally. Wash thoroughly with soap and water after handling and before eating or smoking. Avoid breathing vapors or spray mists. Remove and wash contaminated clothing before reuse.

Statement of Practical Treatment

If In Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Promptly call a physician.

If On Skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If Swallowed: Call a physician or Poison Control Center. Do not induce vomiting. Contains petroleum distillates.

Physical or Chemical Hazards

Combustible

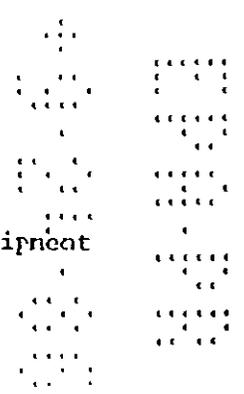
Do not use or store near heat or open flame.

Environmental Hazards

This product is toxic to fish. Do not apply directly to lakes, streams and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

Directions For Use

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



General Information: TANDEM Herbicide is a selective postemergence product to be applied as a tank mixture in combination with atrazine and/or Bladex[®] 80W Herbicide for use to control annual grasses and broadleaf weeds in field corn. Residual preemergence activity will normally occur with these combinations provided soil coverage is achieved and adequate moisture is present. Weed species susceptible to these combinations include the following:

Annual Grasses

- Barnyardgrass (Echinochloa crus-galli)
- Crabgrass (Digitaria spp.)
- Foxtails
 - Giant (Setaria faberi)
 - Green (Setaria viridis)
 - Yellow (Setaria lutescens)
- Goosegrass (Eleusine indica)
- Millet, Proso (Panicum miliaceum)
- Signalgrass, Broadleaf (Brachiaria platphylla)
- Woolly cupgrass (Eriochloa villosa)

Annual Broadleaves

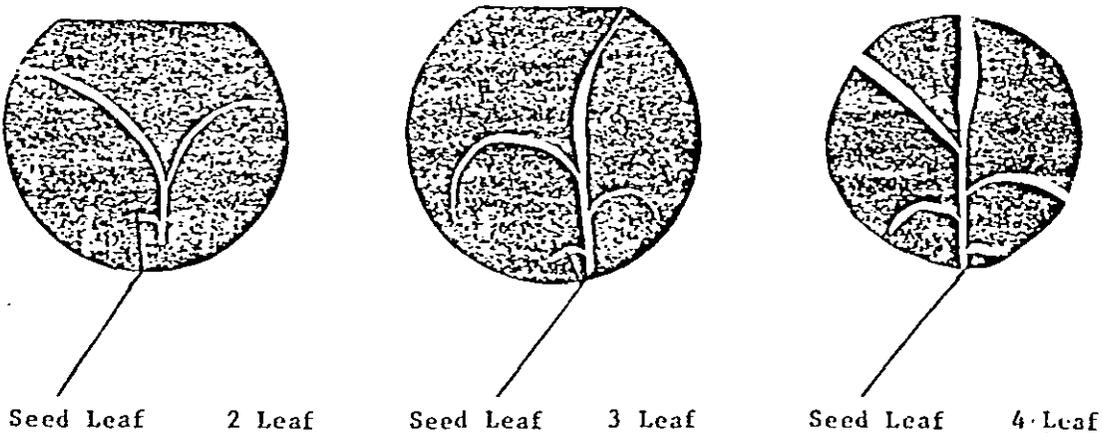
- Buffalober (Solanum rostratum)
- Burcucumber (Sicyos angulatus)
- Cocklebur, Common (Xanthium pensylvanicum)
- Jimsonweed (Datura stramonium)
- Ladysthumb (Polygonum persicaria)
- Lambsquarters, Common (Chenopodium album)
- Morningglory, Tall (Ipomoea purpurea)
- Mustard (Brassica spp.)
- Nightshade, Black (Solanum nigrum)
- Pigweed (Amaranthus spp.)
- Purslane, Common (Portulaca oleracea)
- Ragweed, Common (Ambrosia artemisiifolia)
- Ragweed, Giant, (Ambrosia trifida)
- Smartweed, pennsylvania (Polygonum pensylvanicum)
- Sunflower, Common (Helianthus annuus)
- Velvetleaf (Abutilon theophrasti)

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Timing of Application:

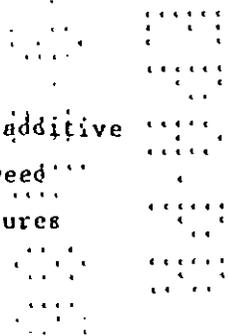
Apply tank mixtures of TANDEM Herbicide plus atrazine and/or Bladex 80W as a broadcast foliar spray to young actively growing weeds. The number of leaves on grass weeds is usually the best indicator for proper timing of application. For optimum control, apply after the first flush of annual grass has emerged and is in the 1 to 3 leaf stage as shown in the diagram below. Applications made to larger grass or those not actively growing may result in reduced control. A cultivation 7 to 14 days after treatment can improve results.

Leaf Stage of Grass



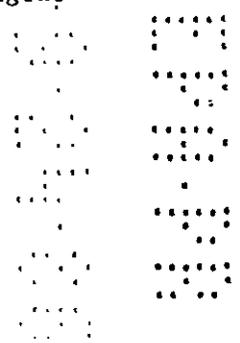
Spray Additives:

Emulsifiable crop oil concentrate or crop oil is required as an additive to all TANDEM plus atrazine combinations to improve wetting of weed foliage. Do not use crop oil or crop oil concentrates with mixtures containing Bladex 80W.



Mixing Instructions:

1. Always use clean spray equipment to prevent contamination with other materials that may cause crop injury or clogging of nozzles or screens.
2. Fill the spray tank about one-half full with clean water.
3. With the spray tank agitation in operation, add the required amount of atrazine and/or Bladex 80W. When wettable powder formulations of these herbicides are used, premixing with water to form a slurry before adding to the spray tank will help to ensure dispersion.
4. Continue filling the spray tank with water while adding TANDEM.
5. Add emulsifiable crop oil concentrate or crop oil after TANDEM but before filling of the spray tank is completed.
6. Maintain vigorous agitation during mixing and application. If agitation is stopped and/or the spray mixture is allowed to settle, thorough remixing is required. Before spraying is resumed, check tank bottom to ensure complete remixing has occurred.
7. In hard water areas, vigorous agitation of spray mixture may cause foaming to occur. If this happens, an antifoam agent should be added to the mixture.



Dosage Rates for Tank Mixtures of
TANDEM Plus Bladex 80W or TANDEM Plus Atrazine and Bladex 80W

Soil Texture ^(a)	Broadcast Rate Per Acre*		
	Timing of Treatment - Weed Size		
	Postemergence - Weeds 1 - 3 leaf		
	TANDEM (pints)	Atrazine 4L ^(b) (pints)	Bladex 80W ^{(c)(d)} (pounds)
Coarse - 1 to 2% organic matter	1		1.5
Coarse - Medium and Fine - 2% to 7% organic matter	1 - 1 1/2		2.0 - 2 1/2
Coarse, Medium and Fine - 2% to 4% organic matter	1	1.5	1
Medium to Fine - 4 to 7% organic matter	1 - 1 1/2	2	1.25

*Note: Where atrazine carryover may be of concern, such as areas where rainfall is sparse or erratic or for corn grown in highly calcareous or alkaline soils, use 1 - 1 1/2 pints of TANDEM plus 1 pint of atrazine 4L and 1.25 lb of Bladex 80W or 1 - 1 1/2 pints of TANDEM plus 2 - 2 1/2 lb of Bladex 80W in place of other dosage rates given, regardless of soil texture.

- (a) Soil texture, organic matter content and rainfall following application affect the length of residual activity. Use higher rates to extend residual control. Coarse texture soils include sand, loamy sand and sandy loam. Medium includes loam, silt loam, silt and sandy clay loam. Fine includes silty clay loam, clay loam, sandy clay, silty clay and clay.
- (b) Any atrazine product recommended for use on field corn may be used. If atrazine 80W is used in place of atrazine 4L, add 0.94 lb (soils with 2% to 4% organic matter) or 1.25 lb (soils with 4% to 7% organic matter) of product to the spray mixture per acre. If atrazine 90% dispersible granules are used, add 0.83 lb (soils with 2% to 4% organic matter) or 1.1 lb (soils with 4% to 7% organic matter).
- (c) Do not use crop oil concentrate or crop oil in mixtures that contain Bladex 80W. Do not apply mixtures that contain Bladex 80W to corn larger than the 4 true leaf stage. Do not apply TANDEM plus Bladex 80W when corn is under stress from prolonged cold or wet weather or when plants are wet from dew or recent rainfall.
- (d) Do not use Bladex 80W on sandy soil containing less than 1% organic matter.

Temporary yellowing of corn may result following application of these treatments under adverse growing conditions. However, recovery is rapid and yield is not reduced

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Special Use Recommendations

Control of Wild Proso Millet and Woolly Cupgrass

Apply the following tank mixtures when the grass is actively growing in the 1 to 3 leaf stage and when corn is no larger than the 4 true leaf stage of development. A layby cultivation after treatment can improve results:

1.5 pints TANDEM plus 2.5 pounds

Bladex 80W; or

1.5 pints TANDEM plus 2 to 2.5 pounds

Bladex 80W and 1 pound of atrazine 80W.

The above combinations can also be used to control a new flush of actively growing wild proso millet or woolly cupgrass following (1) preplant incorporated applications of label rates of Eradicane[®], Eradicane[®] Extra or Sutan[®] or (2) preemergence applications of Lasso[®] or Dual[®]. Applications should be made when the grass is in the 1 to 3 leaf stage.

No Till/Conservation Tillage

Tillage systems that retain a large amount of surface residue need special consideration. Weed growth at planting must be controlled by a burndown herbicide program. Follow manufacturers' label recommendations for these herbicides and apply sufficient rate and spray volume to assure complete control of vegetation at planting time. Combinations with TANDEM Herbicide applied as recommended in the use tables are effective in a program to control the new flush of annual weeds that emerge after early preplant applications or at-plant applications with other herbicides.

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Apply combinations with TANDEM Herbicide listed in the use rate tables after the new flush of annual grass has emerged, is actively growing and in the 1 to 3 leaf stage. At this time, broadleaf weeds may be larger and form a canopy over smaller grasses resulting in poor coverage. Apply combinations with TANDEM earlier under these conditions when good coverage of all emerged weeds can be accomplished.

Use Precautions and Restrictions

Read and carefully follow all applicable directions, restrictions and cautions on labeling for other products used in combination with TANDEM. For atrazine products, be sure to observe rotational crop suggestions to prevent possible injury to subsequent crops caused by atrazine carry-over.

STORAGE AND DISPOSAL

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

Pesticide 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 puncture and dispose of in a sanitary landfill or by other approved state and local procedures.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty or MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use.

