

Specimen Label

Stinger*

Herbicide

OCT 20 1988

Und
Fur
as
Regist.464-600
62719-73

Stinger*

For Selective Postemergence Control of Broadleaf Weeds in Sugar Beets, Wheat, Barley and Oats Not Underseeded With a Legume, Fallow Cropland, Rangeland and Permanent Grass Pastures, Non-Cropland Areas and Conservation Reserve Program (CRP) Acres

Active Ingredient(s):

Clopyralid (3,6-dichloro-2-pyridinecarboxylic acid) as the monoethanolamine salt 40.9%

Inert Ingredient(s):

..... 59.1%

ACID EQUIVALENT: 3,6-dichloro-2-pyridinecarboxylic acid, 31% - 3 lb/gal

E.P.A. Registration No. 464-600

E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUCION:

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUSES EYE INJURY • HARMFUL IF INHALED OR ABSORBED THROUGH SKIN

**Avoid Contact With Eyes, Skin Or Clothing
• Avoid Breathing Spray Mist • Wash Thoroughly With Soap And Water After Handling • Remove Contaminated Clothing And Wash Before Reuse**

STATEMENTS OF PRACTICAL TREATMENT:

If in eyes, flush with plenty of water. Get medical attention if irritation persists. If on skin, wash with plenty of soap and water. Get medical attention.

Physical or Chemical Hazards

COMBUSTIBLE • Do Not Use or Store Near Heat or Open Flame. • Do Not Cut or Weld Containers

Environmental Hazards

Do not contaminate water by cleaning of equipment or disposal of wa res. Do not contaminate water used for irrigation or domestic purposes. Do not apply directly to any

body of water or wetlands. See additional precautionary statements elsewhere on this label.

NOTICE

Read the entire label. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under "WARRANTY LIMITATIONS AND DISCLAIMER."

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

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 through any type of irrigation system.

STINGER Herbicide is recommended for the postemergence control of Canada thistle (rosette to pre-bud), wild buckwheat, leysathumb, green smartweed, diffuse and spotted knapweed, mayweed (dogfennel), musk thistle (rosette to bud), scentless chamomile (false), sunflower (common and wild), sowthistle (annual and perennial), cocklebur, ragweed and common vetch infesting sugar beets, wheat, barley and oats not underseeded with a legume, fallow cropland, rangeland and permanent grass pastures, conservation reserve program (CRP) acres and non-cropland areas including fence rows, around farm buildings and equipment pathways.

For ground treatment, use enough total spray volume to provide uniform spray coverage. Apply 2 or more gallons total spray volume per acre when using a SPRA-COUPÉ and 5 or more gallons total spray volume per acre with other ground equipment. Do not apply where spray drift may be a problem due to proximity of susceptible crops or other desirable plants. Apply during warm weather when weeds are young and growing actively. Best results should be obtained when soil moisture is adequate for plant growth. This product can affect plants directly through foliage and indirectly by root uptake from treated soil.

When tank mixing, read and follow the label of each tank-mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions. Use in accordance with the most restrictive of label limitations and precautions. No label dosages should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

Sugar Beets: STINGER Herbicide is recommended for the control of various annual and perennial broadleaf weeds infesting sugar beets. Apply $\frac{1}{4}$ to $\frac{1}{2}$ pint of STINGER Herbicide per acre with ground equipment as a broadcast foliar spray. Apply in 10 or more gallons total spray volume per acre when the sugar beets are in the 2-true leaf to 8 leaf stage of growth and the weeds are young and actively growing. Re-treat as necessary but do not exceed $\frac{1}{2}$ pint of STINGER Herbicide per acre per season. Do not apply within 105 days before harvest of beet roots and tops. Do not apply to sugar beets grown for seed.

STINGER Herbicide may be applied as a band treatment. Use the formulas below to determine the appropriate rate and volume per treated acre.

Band width in inches	X	Broadcast rate per treated acre	=	Band rate per treated acre
Row width in inches				
Band width in inches	X	Broadcast volume per treated acre	=	Band volume per treated acre
Row width in inches				

Weed Species Recommendations: Apply $\frac{1}{4}$ to $\frac{1}{2}$ pint of STINGER Herbicide per acre to control the following weeds:

Weed Species	Growth Stage	Amount of STINGER per acre ¹
cocklebur	up to 6 leaf	$\frac{1}{4}$ to $\frac{1}{2}$ pt
wild sunflower		
volunteer sunflower		
giant ragweed		
volunteer soybeans		
volunteer alfalfa		
common ragweed	up to 5 leaf	
wild buckwheat	3 to 5 leaf stage but before vining	
smartweeds (suppression)	3 to 4 leaf stage	
Canada thistle ²	rosette to prebud	$\frac{1}{4}$ to $\frac{1}{2}$ pt
sowthistle (suppression)		

¹ Use the lower rate for light to moderate infestations and good growing conditions and the higher rate for dense infestations or under poor growing conditions such as drought.

² For the most effective control of Canada thistle, apply as a broadcast treatment to the entire infested area.

To control additional weeds, tank mix $\frac{1}{4}$ to $\frac{1}{2}$ pint of STINGER Herbicide with 2 to 6.5 pints of Betanix or Betanex. When tank mixing, read and follow the label of each tank-mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions. Use in accordance with the most restrictive of label limitations and precautions. No label dosages should be exceeded. This product cannot be tank mixed with any product containing a label prohibition against such mixing.

Fallow Cropland: Apply $\frac{1}{4}$ to $\frac{1}{2}$ pint of STINGER Herbicide per acre when weeds are 1 to 3 inches tall. Apply $\frac{1}{2}$ pint per acre when weeds are 3 to 6 inches tall or under dry conditions. Where Canada thistle or knapweeds are the primary pest, best results are obtained by applying $\frac{1}{2}$ pint of STINGER per acre when weeds are 3 to 6 inches tall.

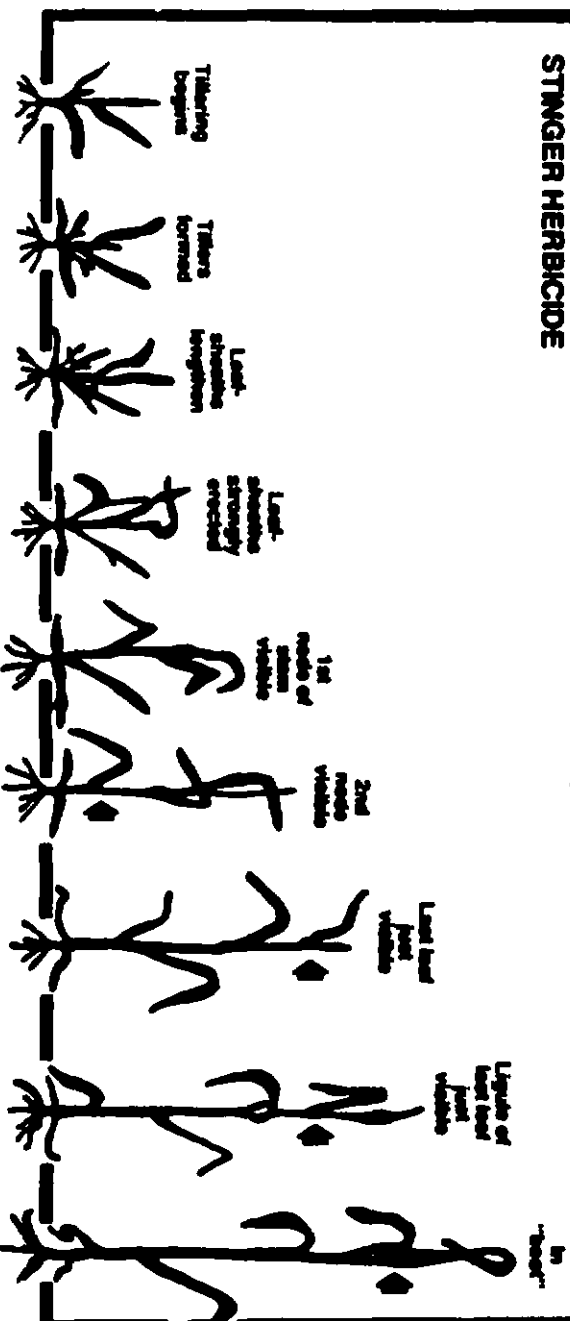
Non-Cropland: Apply $\frac{1}{4}$ to $\frac{1}{2}$ pint of STINGER Herbicide per acre when weeds are 1 to 3 inches tall. Apply $\frac{1}{2}$ pint per acre when weeds are 3 to 6 inches tall or under dry conditions. Where Canada thistle or knapweeds are the primary pest, best results are obtained by applying $\frac{1}{2}$ pint of STINGER Herbicide per acre when weeds are 3 to 6 inches tall. To improve spectrum of activity or to increase activity against taller weeds, STINGER may be tank mixed with 0.5 to 2.0 lbs as per acre of 2,4-D amine or low volatile ester.

Wheat, Barley and Oats: Apply $\frac{1}{4}$ to $\frac{1}{2}$ pint of STINGER Herbicide per acre from the 3 leaf stage up to early boot stage of growth. NOTE: Do not permit dairy animals or meat animals being finished for slaughter to forage or graze treated grain fields within 1 week after treatment. Do not harvest hay from treated grain fields.

BEST AVAILABLE COPY

APPLICATION PERIOD FOR STINGER HERBICIDE

WHEAT, BARLEY AND OATS



Tank Mixtures for Wheat, Barley and Oats: Tank mix 1/4 to 1/2 pint per acre of STINGER Herbicide with the herbicides listed below for the control of additional weeds.

Active Ingredient /Product Name	Amount of Product per Acre
2,4-D Amine or Ester	1/2-1 pt
MCPA Amine or Ester	1/2-1 pt
bromoxynil	1/2-1 pt
BROMANAL	1/2-1 pt
c/BUCTRIL	1/2-1 pt
ME4 BROMANAL	1/2-1 pt
bromoxynil + MCPA	1 pt
BROMATE	1 pt
chlorasulfuron	1/2-1 pt
GLENN 75% DF	1/2-1 pt
dicamba	1/2-1 pt
BAVUEL	1/2-1 pt
terbutryn	1/2-1 pt
IGRAN 80% WP	1/2-1 pt
metolachlor	1/2-1 pt
SENCOR 75 DF or LEXONE DF	1/2-1 pt
LEXONE 4L or SENCOR 4	1/2-1 pt
LEXONE 50 WP	1/2-1 pt
duron	1/2-1 pt
DIREX 4L or DUREON 4L	1/2-1 pt

Tank mix for application on wheat and barley only.

Rangeland and Permanent Grass Pastures: Apply 1/2 to 1 1/2 pints of STINGER Herbicide per acre when weeds are young and actively growing. Grasses are tolerant, but new grass seedlings may be injured to varying degrees until the grass has become well established.

NOTE: Many forbs are susceptible to STINGER Herbicide. Do not spray pastures containing desirable forbs, especially legumes, unless injury can be tolerated. However, the stand and growth of established perennial grasses is usually improved after spraying, especially when rainfall is adequate and grazing is deferred.

Do not use hay or straw from treated areas for composting or mulching on susceptible broadleaf crops.

Conservation Reserve Program (CRP) For Seeding To Permanent Grasses Only

Do not use STINGER Herbicide if legumes or brome grass are a desired cover during CRP.

Grass grown on CRP acres cannot be grazed or used for hay.

Conditions that stress grasses, such as drought, will increase potential for injury to the grass at all stages of growth. Do not use in newly seeded areas until grass is established.

After CRP, do not plant broadleaf crops in treated areas until an adequately sensitive bioassay shows that no detectable crop/soil is present in the soil.

Broadcast Applications (Ground): Applications of STINGER Herbicide should be made when perennial grasses have become established (has tillered, developed a good secondary root system and shows good vigor) since most perennial grasses have shown better tolerance to the herbicide at that stage.

For control of actively growing weeds such as milk thistle (after the rosette stage), Canada thistle and knapweed (spotted, diffuse and Russian), use 1/2 to 1 1/2 pints per acre of STINGER Herbicide after the grass is well established. For the control of wild buckwheat, volunteer sunflower and milk thistle rosettes, apply 1/2 pint per acre of STINGER Herbicide. STINGER Herbicide can also be tank mixed with 1/2 to 1 lb/acre of 2,4-D where species present are sensitive to 2,4-D. For best results, use in 5 or more gallons of water per acre by ground, increasing the rate of application can increase the risk of injury. Application prior to the flowering stage is recommended (well in the bud stage).

USE PRECAUTIONS

Apply only once per 12 month period, except for sugar beets (see Directions for Use).

Do not plant or rotate to any crop for one year, after treatment, except for wheat, barley, oats, grass or sugar beets. To avoid potential phytotoxicity, do not plant peas, lentils, vetches (except soybeans) or broadleaf seed crops, or 16 months after treatment unless the risk of injury is acceptable.

Do not apply STINGER Herbicide directly to or allow spray drift to come in contact with vegetables, lvs, a.s., grapes, tomatoes, potatoes, beans or other desirable broadleaf crops and ornamental plants.

Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.

BEST AVAILABLE COPY

Do Not Transfer Livestock from treated grazing areas onto sensitive broadleaf crop areas without first allowing 7 days of grazing on an untreated pasture. Otherwise, urine may contain enough clopyralid to cause injury to sensitive broadleaf plants.

Avoid Spray Drift: Applications should be made to avoid spray drift since very small quantities of the spray, which may not be visible, may severely injure susceptible crops during both growing and dormant periods. Use coarse sprays to minimize drift since, under adverse weather conditions, fine spray droplets may drift a mile or more. Drift control additives such as NALCO-TROL may be used with this product to aid in reducing spray drift. All use recommendations and precautions on the drift control label should be followed completely to assure proper mixing and maximum effectiveness.

Ground Application: With ground equipment, spray drift can be lessened by keeping the spray boom as low as possible; by using no more than 45 pounds spraying pressure with nozzles designed for herbicide application that do not produce a fine droplet spray; by spraying when wind velocity is low; and by stopping all spraying when wind exceeds 10 miles per hour.

Do not apply by aircraft.

Do not use in a greenhouse. Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination or plant growth.

PRECAUTIONARY STATEMENTS

Environmental Hazards

Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

STORAGE AND DISPOSAL

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

Storage: Store above 28°F or warm to 40°F and agitate before use.

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: Metal Do not reuse container. Triple rinse (or equivalent). Puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Container Disposal: Plastic Do not reuse container. Triple rinse (or equivalent). 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 LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. **THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL.** Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. **THE EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:**

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

06505-L6

966



The Dow Chemical Company
Midland, Michigan 48674 U.S.A.

*Trademark of THE DOW CHEMICAL COMPANY