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ACCEPTED
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U.S. Environmental Protection Agency
Registration Division
Washington, D.C. 20460
EPA Reg. No. 876-1168



DIRECTIONS FOR USE
IT IS A VIOLATION OF FEDERAL LAW
TO USE THIS PRODUCT IN A MANNER
INCONSISTENT WITH ITS LABELING
E.P.A. Reg. No. 876-168A.
THIS LABELING MUST BE IN THE POSSESSION OF
THE USER AT THE TIME OF PESTICIDE APPLICATION
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PROPOSED
LABEL

BEST AVAILABLE COPY

BEFORE USING BANVEL-520 HERBICIDE
READ AND FOLLOW THE PRECAUTIONARY STATEMENTS
APPEARING ON THE CONTAINER

BANVEL-520 Oil Soluble Industrial Herbicide is recommended for use for rights-of-way (utility, railroad, highway, pipeline), nonselective forest brush control, fence rows, drainage ditch banks, wasteland, and similar non-cropland areas.

IMPORTANT

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

BANVEL-520 herbicide may cause injury to desirable trees or plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes, and other broadleaf plants when contacting their roots, stems, or foliage. Plants are most sensitive to BANVEL-520 herbicide during their development or growing stage. FOLLOW THE PRECAUTIONS LISTED BELOW WHEN USING BANVEL-520 HERBICIDE. ✓

- . Do not apply to areas where possible downward soil movement or surface washing may cause contact of BANVEL-520 herbicide with the roots of desirable plants, such as trees and shrubs.
- . Avoid making application when spray particles may be carried by air currents to areas where sensitive crops and other desirable plants are growing. Always make application when there is some air movement in order to determine the direction and distance of possible spray drift. Leave an adequate buffer zone between the area to be treated and desirable sensitive plants. Coarse sprays are less likely to drift out of target area.
- . To avoid injury to desirable plants, equipment used for BANVEL-520 herbicide should be thoroughly cleaned (see PROCEDURE FOR CLEANING SPRAY EQUIPMENT on pages 7-8) before handling or applying any other chemical.

Aerial application should be made with extreme care to prevent off-target drift. An adequate buffer zone must be maintained between the area to be treated and desirable sensitive plants. Observe all drift precautionary statements described in this label.

Application of BANVEL-520 herbicide may injure newly seeded grasses. Furthermore, rates in excess of 1 1/2 pints per treated acre may cause stunting of sensitive established grass species such as bentgrass and St. Augustine grass. Treatments will kill or injure alfalfa, clovers, lespedeza, wild winter peas, vetch and other legumes.

Consult your local or state authorities for possible application restrictions and advice concerning special local use situations.

- DO NOT APPLY IN AREAS WHICH MAY BE GRAZED BY LIVESTOCK OR CUT FOR HAY WITHIN 1 YEAR OF APPLICATION.

**PROCEDURE FOR CLEANING
SPRAY EQUIPMENT**

The steps listed below are suggested for thorough cleaning of spray equipment following applications of BANVEL-520 herbicide or tank mixtures with BANVEL-520 herbicide and other products.

1. Rinse with a small quantity of kerosene or diesel oil. Circulate the liquid throughout the sprayer system, pumping it through the hose and nozzles for at least two minutes. Flush by operating sprayer until the system is purged of liquid.
2. Fill tank with water while adding 2 lbs. of detergent for every 40 gallons of water. Operate the pump to circulate the detergent solution through the sprayer system for 5 to 10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
3. Flush the detergent solution out of the spray tank through the boom.
4. Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Flush by operating sprayer until the system is purged of the rinse water.
5. Fill tank with water while adding 1 quart of household ammonia for every 25 gallons of water. Operate the pump to circulate the ammonia solution through the sprayer system for 15 to 20 minutes and discharge a small amount of the ammonia solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
6. Flush the solution out of the spray tank through the boom.
7. Remove the nozzles and screens and flush the system with two full tanks of water.

REFER TO THE CONTAINER LABEL FOR INSTRUCTIONS CONCERNING DISPOSAL OF WASTE AND CLEANING RINSES.

BRUSH AND VINES CONTROLLED

BANVEL-520 herbicide, when applied in accordance with this label, will give control or growth suppression of many woody brush and vine species including:

- | | |
|---------------------------|----------------------------|
| ailanthus | locust, black |
| alder | *maple |
| apple | *melaleuca (cajeput tree) |
| ash | *mesquite |
| aspen | oak, poison |
| basswood | oak |
| beech | *peppertree, Brazil |
| birch | (Florida holly, |
| *blackberry | Schinus) |
| *blackgum | persimmon, eastern |
| cascara | pine |
| cedar | plum, sand (wild plum) |
| cherry | poplar |
| *chinguapin | *rabbitbrush |
| condalia, lotebush (lote) | *redcedar, eastern |
| *cottonwood | rose, McCartney |
| creosotebush | rose, multiflora |
|
 |
 |
| cucumbertree | sagebrush, fringed |
| dewberry | sassafras |
| *dogwood | serviceberry |
| elderberry | snowberry, western |
| *elm | (buckbrush) |
| fir | spicebush |
| grape | spruce |
| guava | sweetgum |
| hawthorn (thornapple) | sumac |
| hemlock | sycamore |
| hickory | tarbush |
| honeysuckle | trumpet creeper (buckvine) |
| hornbeam | waxmyrtle |
| huckleberry | willow |
| *huisache | witchhazel |
| ivy, poison | *yaupon |
| kudzu | yucca |

* When treating noted species, use the more concentrated of the spray mixtures recommended on pages 13 and 14.

MIXING

BANVEL-520 herbicide is an oil soluble formulation which can be applied using oil or oil-water emulsions (including invert systems) as the carrier. To prepare oil in water emulsions, follow the W A C O Mixing Sequence described under LOW OIL SPRAY TREATMENTS on page 14. When tank mixing with other herbicides, read and follow the instructions on the label of all products used concerning mixing and application. A COMPATIBILITY TEST (page 16) should be made prior to any tank mixing.

MAINTAIN AGITATION DURING SPRAY OPERATION TO PREVENT OIL AND WATER FROM FORMING SEPARATE LAYERS.

Spray additives such as ACCUTROL® spray adjuvant (Trademark of Velsicol Chemical Corporation), may be used for improved wetting and penetration. Read and follow all use recommendations and precautions on each product label.

APPLICATION

BANVEL-520 herbicide may be applied as a stump or basal treatment or as a dormant stem treatment using high volume ground, low volume ground, or aerial application equipment in an oil or low oil spray. Volume of spray applied will depend on the height, density, and type of weeds or brush being treated and the type of equipment being used. Apply 10 to 40 gallons of diluted spray per treated acre when using aerial application equipment. Refer to the IMPORTANT section on pages 3-4 for drift precautionary statements.

- **STUMP or BASAL** treatments may be made by applying BANVEL-520 herbicide at any time during the year, including winter (except when snow or water prevents spraying to the ground line or when extreme cold causes the spray mixture to freeze). A drench treatment may be made by spraying the entire stump until runoff or, if making a basal application, by spraying the basal parts of the brush and tree trunk (particularly bark and exposed roots) from the ground line up to a height of two feet. The soil surface around the stump should also be sprayed. Application may be made either as a hydraulic high volume or as a manual or powered low volume backpack treatment. See pages 13-14 for more information.
- **DORMANT STEM** treatments may be made by applying BANVEL-520 herbicide when most of the foliage has dropped off or at any time of the year when foliage does not inhibit spray coverage of the stem. Spray the collar at ground line and each stem until runoff, with special emphasis on covering the root crown. Hydraulic high volume, manual or powered low volume backpack, or aerial treatments may be made. See pages 13-14 for more information.

OIL SPRAY TREATMENTS

Hydraulic High Volume: Mix 3 to 6 gallons of BANVEL-520 herbicide in sufficient oil or in an oil-water emulsion (see LOW OIL SPRAY TREATMENTS below) to make 100 gallons of spray mixture.

Manual Backpack Low Volume: Mix 4 to 6 gallons of BANVEL-520 herbicide in sufficient oil to make 100 gallons of spray mixture. To mix in an oil in water emulsion, see LOW OIL SPRAY TREATMENTS below.

Powered Backpack Low Volume: Mix 9 to 18 gallons of BANVEL- 520 herbicide in sufficient oil to make 100 gallons of spray mixture. To mix in an oil in water emulsion, see LOW OIL SPRAY TREATMENTS below.

LOW OIL SPRAY TREATMENTS

A low oil treatment may be applied at any time of the year for brush control (except when snow or water prevents spraying to the ground line or when extreme cold causes freezing of the spray mixture) as a hydraulic high volume or an air or ground low volume spray treatment. When using low oil treatments, follow the steps of the W A C O Mixing Sequence listed below:

1. W - With continuous agitation, add half the desired amount of water to the spray tank.
2. A - Add the amount of ACCUTROL spray adjuvant required for the spray volume being mixed.
3. C - Add the amount of chemical (BANVEL-520 herbicide) necessary for the total volume of spray being mixed.
4. O - Add the amount of oil required. Finally, add the remaining amount of water needed to bring the spray mixture to the desired volume, maintaining constant agitation in the spray tank throughout mixing.
(Note: A premix of BANVEL-520 herbicide and oil may, with constant agitation, be added to the water - Accutrol mix in place of the last two steps of this sequence.)

Low Oil Mixing Table

Means of Application	----- Gallons of Mix* -----				
	Water	ACCUTROL®	Chemical	Oil	Total
Hydraulic	89.4	0.5	3	10	---
	to		to	to	
High Volume	78.5	0.5	6	15	100
Air or					
Ground	7.5	0.5	1	1	10
Low Volume	28.5	0.5	6	5	40

*Adjust volumes of spray components proportionately when mixing volumes other than those listed above. Do not apply more than 6 gallons BANVEL-520 herbicide per treated acre per growing season.

TANK MIX TREATMENTS

Read the label of each tank mix product and follow the more restrictive of the precautionary statements, limitations, and directions for use. No label dosage rate may be exceeded. This product must not be mixed with any product whose label prohibits such mixing. Water soluble products may be applied as a low oil spray treatment only. BANVEL-520 herbicide may be tank mixed with the following herbicides:

Compound	Rate
	lbs. a.i./treated acre
picloram (TORDON®)	2 to 3
triclopyr (GARLON®)	1 to 8
*2,4-D ester	2 to 6
2,4-DP ester	2 to 4

* Do not exceed 12 lbs. total 2,4-D acid equivalent per treated acre. (BANVEL-520 herbicide contains the equivalent of 1.9 lbs./gal. 2,4-D acid.)

Due to the variations that may occur in formulated products and specific use ingredients (eg. water supplies), a COMPATIBILITY TEST as described on page 16 is recommended prior to actual tank mixing.

TORDON and GARLON are registered trademarks of Dow Chemical Co.

COMPATIBILITY TEST

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities.

First, determine the actual application method (low oil or oil treatment). Then, in the following table, find the appropriate vertical column and add the necessary spray components in the order listed. Shake the mixture after each component is added.

Compatibility Mixing Chart for BANVEL-520 Herbicide
(Assuming component volume is per 100 gallons spray mix)

Spray Component	LOW OIL TREATMENT		OIL TREATMENT	
	Gallons	Level Teaspoons	Gallons	Level Teaspoons
Carrier	one quart water		one quart oil	
Herbicide(s)	3 6 18	3 6 18	3 6 18	3 6 18
Accutrol*	1/2	1	-	-
Oil	10 15	10 15	-	-

* or other suitable emulsifier.

The complete test mixture should not separate into layers for at least 5 minutes. Should separation occur earlier, repeat the test by decreasing the amount of oil, by increasing the amount of Accutrol spray adjuvant or by adding a compatibility agent such as Surfel® spray adjuvant (trademark of Union Carbide Agricultural Products Co., Inc.). 1/4 teaspoon of compatibility agent is equivalent to 2 pints per 100 gallons of spray solution.



THIS LABELING MUST BE IN THE
POSSESSION OF THE USER AT THE
TIME OF THE PESTICIDE APPLICATION

NOTICE: Read "LIMITED
WARRANTY AND LIABILITY" on the
container before buying or using.
If terms are not acceptable,
return at once unopened.

PROSPER WITH PESTICIDES
BY USING THEM PROPERLY
READ AND FOLLOW LABEL
DIRECTIONS



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