DOW VERTON® 4D WEED AND BRUSH KILLER

SPECIMEN LABEL

Containing low volatile propylene glycol butyl ether (PGBE) esters of 2,4-D in a formulation designed for forming inverted emulsions.

ACTIVE INGREDIENTS:

2,4-Dichlorophenoxyacetic Acid, Propylene Glycol Butyl Ether Esters	72.8%
INERT INGREDIENTS	27.2%

Acid Equivalent:

2,4-Dichlorophenoxyacetic Acid	45.1% – 4 lb/gal

E.P.A. Registration No. 464-373 **E.P.A. Est. 464-MI-1**

AGRICULTURAL CHEMICAL

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

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

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

Use VERTON 4D weed and brush killer on non-crop areas, such as right-of-ways, fence rows, around farm buildings, outer banks of ditches, forests, and grass pastures and rangelands to control such 2,4-D susceptible weeds as

annual morningglory	common ragweed	marshelder	vetch
bitter sneezeweed	croton	musk thistle	whitetop
bitterweed	dandelion	mustards	wild buckwheat
broomweed	docks	peppergrass	wild carrot
bull thistle	fanweed	pigweed	garlic
burdock	fringed sagewort	plantains	wild morningglory
Canada thistle	jimsonweed	Russian knapweed	wild onion
cocklebur	kochia	Russian thistle	wild radish
common evening primrose	lambsquarters	shepherdspurse	yellow star thistle
	leafy spurge	sunflower	
	mallow	Texas blue weed	

And many other broadleaved weeds and certain *woody* perrennials including

alder	chamise	low sagebrush	sand shinnery oak
big sagebrush	coastal sage	manzanita	willows
black sagebrush	elderberry	rabbitbrushes	sumac
buckbrush	hazel	sand sagebrush	

USE DIRECTIONS

General Information: VERTON 4D is designed and recommended to be used as a thick "invert" oil-water spray emulsion which minimizes spray drift Application should be made only with equipment designed for use with high viscosity (thickened) sprays, using nozzle with large orifices and spraying at low pressure (15 to 30 psi)

Sprays containing VERTON 4D may be applied with either ground or aerial equipment

Do not graze treated areas to dairy animals within 7 days after application

Amounts and When to Use: Apply VERTON 4D weed and brush killer at rates of 1 to 4 quarts in 4 to 8 gallons of spray mixture per acre Use the lower rates on young annual weeds highly susceptible to 2,4-D Use the 4 quart rate on the more difficult-to-kill perennial weeds and brush species For best results, apply the spray when the weeds and brush are growing actively With good growing conditions and high soil moisture, sprays may be used up to two or three weeks before normal frost time Control may be less during hot and dry weather when soil moisture is deficient

Consult your State Agricultural Experiment Station or Extension Service Herbicide Specialist for local recommendations

How to Mix the Spray: To a clean spray tank, free of standing water and equipped with good mechanical agitation, add the required amounts of VERTON 4D and the oil of choice, which may be No 2 fuel oil, No 2 diesel oil, or kerosene, and agitate until thoroughly mixed Then, with continued vigorous agitation, add water at a uniform rate to give the amount of spray needed **Note carefully:** If emulsification has not begun after ¼ to ⅓ of the required water has been added, stop adding water and increase agitation until emulsification is accomplished When this occurs, add the remaining required water Then, with continued agitation, recycle the mixture through the spray pumping system and back into the tank at approximately 30 psi for approximately 20 minutes to develop the desired thickness (viscosity) Minor variations in thickness may be obtained by adding small amounts of water to increase the thickness or small amounts of oil to decrease the thickness

The accompanying table shows the amounts of each spray ingredient to be used to prepare 100 gallon batches, which preparation may be made in separate equipment and then transferred to the application equipment as used

What To Use To Prepare 100 Gallons of Spray

Rate of Spray Mix Desired Per Acre	Pounds of 2,4-D Acid Equivalent Desired Per Acre	Gallons of Each Required To Make 100 Gallons of Spray Mixture*		
		VERTON 4D	Oil	Water
4 gallons	1	6 25	15 75	78 0
	2	12 50	13 75	73 75
	3	18 75	11 25	70 00
6 gallons	1	4 25	12 75	83 0
	2	8 50	16 50	75 0
	3	12 50	13.75	73 75
8 gallons	4	12 50	13 75	73 75

* The amounts of each component may be proportionately increased or decreased if larger or smaller batches are to be mixed However, the ratio of the components must be kept constant regardless of the batch size needed

USE PRECAUTION

Do not let VERTON 4D or sprays and spray mist containing it, come into contact with vegetables, flowers, grapes, fruit trees, ornamentals, cotton or other desirable plants which are sensitive to 2,4-D since even minute quantities may cause injury to such plants during either growing or dormant periods Applications by either airplane or ground rigs should be made only when there is no hazard from drift Do not apply by aircraft in the vicinity of cotton, grapes or other desirable 2,4-D susceptible vegetation At higher temperatures, vaporization may cause injury to susceptible plants growing nearby Excessive amounts of this weed killer in the soil may temporarily stop seed germination or plant growth Do not contaminate irrigation ditches or water used for domestic purposes Do not store near fertilizers seeds, insecticides or fungicides To avoid injury to desirable plants, do not store, handle or apply other agricultural chemicals with the same containers or equipment used for VERTON 4D

Be sure that use of this product conforms to all applicable regulations Local conditions may affect the use of herbicides State agricultural experiment station or extension service weed specialists in many states issue recommendations to fit local conditions

Do not graze treated areas to dairy animals within 7 days after application

This product is toxic to fish Keep out of lakes, streams or ponds Apply this product only as specified on this label

Carefully note the following points:

1 Other agricultural chemicals should not be added to sprays containing VERTON 4D The emulsifiers used in many conventional sprays may not be compatible with those of VERTON 4D

2 Avoid use of VERTON 4D during unusually high temperatures since considerable thinning of the spray mix, as an inverted emulsion may result The temperature of the spray solution should not exceed 90 F

3 Even though the inverted emulsion formed by the proper mixing of VERTON 4D is a thicker spray mixture which drift less than conventional spray mixtures during application, care must still be taken to avoid drift of spray particles onto susceptible crops

4 Coarse sprays are less likely to drift, therefore, nozzles with large orifices and a low spraying pressure should be used

Cleaning of Equipment and Disposal of Waste: Equipment such as tanks, lines, booms, nozzles and containers used in the handling and application of VERTON 4D should be flushed after use with oil such as No 2 diesel of No 2 fuel oil or kerosene Dispose of flushing and rinse wastes and empty containers by burying in non-crop areas away from water supplies

CAUTION

KEEP OUT OF THE REACH OF CHILDREN
MAY CAUSE SKIN IRRITATION
May be Harmful if Swallowed
Avoid Contact With Eyes, Skin and Clothing

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but 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 or under abnormal conditions or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use B1174

THE DOW CHEMICAL COMPANY MIDLAND, MICHIGAN 48640

86-1207 PRINTED IN U.S.A. IN DECEMBER, 1974

REPLACES SPECIMEN LABEL 86-1207 PRINTED IN NOVEMBER 1969

REVISIONS INCLUDE: (1) EPA ESTABLISHMENT NUMBER ADDED (2) USDA CHANGED TO EPA (3) AGRICULTURAL CHEMICAL STATEMENT ADDED (4) SPANISH WARNING ADDED

ACCEPTED

AUG 19 1975

Under the Federal Insecticide, Fungicide, and Rodenticide Act, for the pesticide registered under EPA Reg. No. 464-373

RECEIVED

27 JAN 1975

REGISTRATION DIVISION PESTICIDES, EPA