

GENERAL INFORMATION

Pennamine D is a low volatile 2,4-D amine formulation which controls most broadleaf weeds and some woody plant species. Use Pennamine D for controlling:

- | | | |
|--------------------|------------------|---------------------|
| thistles | marshelder | wild radish |
| wild morning glory | mustards | elder |
| bitterweed | peppergrass | buckbrush |
| broomweed | pic reed | elderberry |
| croton weed | plantains | hazel |
| dandelion | ragweed | coastal sage |
| docks | shepherd's purse | sumac |
| dogfennel | tarweed | willow |
| fenweed | vetch | sand shinnery oak |
| lockia | wild carrot | certain other woody |
| lambquarters | wild garlic | perennials and |
| mallow | wild onion | broadleaved weeds |

MIXING DIRECTIONS: Add half the required amount of water to the spray tank, then the Pennamine D, with agitation, and finally the balance of the water with continued agitation. Provide agitation to ensure uniform spray mixture.

ROADSIDE AND GENERAL WEED CONTROL: For all non-crop areas such as drainage ditch banks, farmyards, rights-of-way and fence rows, use 1 to 1 1/2 quarts of Pennamine D in 100 gallons of water per acre. Apply when the weeds are growing actively and the foliage is fully expanded. Wet all foliage thoroughly.

TURF AND PASTURE WEED CONTROL: Apply when the weeds are growing actively. Use 2 to 4 quarts of Pennamine D per acre for wild garlic and wild onion in pastures making three applications (fall-spring-fall or spring-fall-spring in very late fall and very early spring). For more sensitive broadleaved weeds, use 3/4 to 1 quart Pennamine D per acre in 10 to 20 gallons of water. For Turf, apply one quart of Pennamine D per acre in sufficient water to provide uniform coverage. For treating small areas, use 1 1/2-2 tablespoons of Pennamine D in 2 gallons of water per 1,000 square feet. NOTE: Do not use on bent or other creeping grasses, except for spot spraying. Do not use on freshly seeded lawns or pasture lands until grass is well started. Clover and other legumes are normally damaged or killed by Pennamine D.

WOODY PLANTS: Brush up to 6 to 8 feet tall susceptible to 2,4-D may be sprayed after the foliage is well developed. Use a drenching spray of 1 1/2 quarts of Pennamine D in 100 gallons of water per acre. Wet the foliage, shoots, stems and bark thoroughly.

Spraying soon after the leaves are fully open in the spring usually gives best results. Do not spray within 2 to 3 weeks before the normal frost time. During hot, dry weather when deep soil moisture is deficient, control may be less effective. For sand shinnery oak, use 1 quart of Pennamine D either in 5 gallons of diesel or fuel oil or in 4 gallons of water plus 1 gallon of oil. Apply by airplane between May 15 and June 15. For sand sagebrush, use 1 quart of Pennamine D in 3 gallons of diesel or fuel oil. Apply by airplane when plants are growing actively and foliage is fully developed.

ORCHARD WEED CONTROL: Apples and Pears—For control of the following broadleaved annual and perennial weeds, apply two quarts of Pennamine D in 100 gallons of water per acre:

- | | | |
|----------------|--------------|----------------------|
| Canada Thistle | Poison Ivy | Milkweed |
| Field Bindweed | Curled Dock | Stinging Nettle |
| Leafy Spurge | Horse Nettle | Black-eyed Susan |
| Ragweed | Ironweed | Snow-on-the-Mountain |
| Bull Thistle | Cocklebur | Bitterweed |

Use a calibrated boom-type sprayer with pressure adjusted to less than 20 psi. Treat when the weeds are in the pre-bud or early bud stage and actively growing. Do not permit weeds to flower. Repeated applications may be necessary to control Canada Thistle, Bindweed, Poison Ivy and other deep-rooted, woody perennials.

DO NOT allow spray to contact trunks, leaves, fruit, or stems of the fruit trees.

DO NOT apply to bare soil or when soil is cold.

DO NOT apply when winds are blowing in excess of 7 miles per hour or when apple and pear trees are in blossom.

WEEDS IN SORGHUM: Apply 1/2 to 1 pint of Pennamine D per acre in 10 to 20 gallons of water by ground. Use the low rate for annual broadleaf weeds and the high rate for perennial broadleaf weeds. Crop is most tolerant to 2,4-D when 3 to 12 inches tall. Use drop nozzles when crop is over 10 inches high. Do not use when plants are less than 3 inches tall or after they are 12 inches tall. Do not apply during flowering or early dough stage.



PENNAMINE D

ACTIVE INGREDIENTS

45.7%	2,4-D acid equivalent	100.0%
TOTAL		100.0%

CAUTION

KEEP OUT OF REACH OF CHILDREN

AVOID CONTACT WITH SKIN, EYES, OR CLOTHING HARMFUL IF SWALLOWED

FIRST AID: In case of contact immediately flush eyes with plenty of water for at least 15 minutes

**EPA REGISTRATION NO. 4581-290
EPA ESTABLISHMENT NO. 228-IL-1**

U.S. Patent No. 2,900,411

Net Contents _____ Gallons

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WEEDS IN RICE: Treat 4 to 8 weeks after emergence, but between tillering and the boot stage. When treating flooded rice, treat between 4 and 9 weeks after seeding, when rice plants have emerged above water and leaves are standing erect. Do not apply after seed stalks have emerged. Dosage should be 1 1/2 to 2 1/2 pints per acre in 5 to 10 gallons of water depending upon weeds present and method of application.

WEEDS IN SPRING WHEAT AND BARLEY: Spray when grain is in full tiller stage, 6 to 8 inches tall, until the early boot stage. Apply 1/2 pint Pennamine D per acre in 10 to 20 gallons of water by ground. Depending on the resistance of the weeds to be treated the dosage may be reduced to 1/4 pint or increased to 3/4 pint.

WEEDS IN WINTER WHEAT AND RYE: Apply 1/2 to 3/4 pint Pennamine D per acre in 10 to 20 gallons of water. Application should be made when fully tillered, 6 to 8 inches tall, until the early boot stage.

WEED CONTROL IN OATS NOT UNDERSEEDED WITH A LEGUME: Apply not more than 1/2 pint Pennamine D per acre in 10 to 20 gallons of water by ground when grain is in full tiller stage, 6 to 8 inches tall, until early boot stage. NOTE: On wheat, barley, rye and oats, do not apply from boot to milk stage or in seedling stage.

NOTE: When used on barley, oats, rye or wheat—Do not forage or graze treated grain fields within 14 days after treatment with Pennamine D. Do not feed treated straw to livestock.

PRE-EMERGENCE IN CORN: Use 1 to 2 quarts of Pennamine D in 10 to 20 gallons of water per acre. Apply to soil 3 to 5 days after planting but before corn emerges. Do not treat very light, sandy soil.

POST-EMERGENCE WEED CONTROL IN CORN: Apply 1/4 to 1/2 pint Pennamine D in 10 to 20 gallons of water to give good coverage. Use the low rate for sensitive weeds and the high rate for resistant weeds. Apply as soon as possible after most of the weeds have emerged. After the corn is 6 to 8 inches tall, use drop nozzles to keep spray off corn foliage. Do not apply from tasseling to dough stage.

WARNING

Extreme care must be used when applying Pennamine D to prevent injuring desirable plants and crops. Pennamine D should not be used in susceptible crops such as cotton, vegetables, grapes, soy beans, tobacco or beans. Do not allow spray mist to drift onto such plants, since even minute quantities of spray may cause severe injury. Use low pressure when spraying to produce coarse sprays which are less likely to drift. Do not graze treated areas by dairy animals within seven days after treatment. Do not use in greenhouses. Large amounts of Pennamine D in the soil may temporarily inhibit seed germination. Never use more Pennamine D than recommended.

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

Avoid contamination of irrigation or domestic water with this material.

Do not store near fertilizers, seeds, insecticides or fungicides.

Keep container closed when not in use, and do not re-use for other purposes. Wash thoroughly with water and detergent. Discard in a safe place.

Use a separate sprayer for application of Pennamine D. If the same sprayer must be used for other crop spraying it should be flushed thoroughly with water immediately after use. Next fill sprayer with water containing one volume of household ammonia to 100 volumes of water and allow to stand for one day. Then flush equipment thoroughly including hoses and nozzles several times with water.

NOTICE

July 2, 1974

4581-290

 PENNWALT

PENNAMINE D

Weed Killer for Pre- and Post-emergence Applications

Contains 4 pounds 2,4-D acid equivalent per gallon

ACTIVE INGREDIENT:

Octylamine salt of 2,4-dichloro-
phenoxyacetic acid* 69.2%

INERT INGREDIENTS 30.8%

TOTAL 100.0%

*43.7% 2,4-D acid equivalent

CAUTION

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... HARMFUL TO AQUATIC LIFE

REGISTRATION NO. 123456
EPA ESTABL. NO. 1234567

Net Contents Gallons

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