VERTAC

NOT REVIEWED
In Accordance with PR Notice 82-2.
Based on Draft Labeling Dated [illegible]

WEED RHAP
A-4D
2,4-D HERBICIDE

ACTIVE INGREDIENT:

Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid	46.7%
INERT INGREDIENTS	53.3%
TOTAL	100.0%

[illegible]
Isomer [illegible]
E.P.A. Reg. No. [illegible] AR-1

PRECAUTIONARY STATEMENTS

CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

[illegible] Avoid breathing spray mist [illegible] and [illegible]

ENVIRONMENTAL HAZARDS

[illegible] directly to water except as specified on [illegible] aquatic weed control. Do not contaminate water [illegible] equipment or disposal of wastes. Do not contaminate water intended for irrigation or domestic purposes. Do not apply when weather conditions favor [illegible] from target area.

KEEP OUT OF REACH OF CHILDREN

CAUTION

If Swallowed: [illegible] water and induce [illegible] [illegible] attention.

If On Skin: [illegible] soap and water. [illegible] Get medical attention [illegible]

If In Eyes: Flush [illegible] clean water for 10-15 minutes. Get medical attention.

See side panel for additional precautionary statements.

VERTAC CHEMICAL CORPORATION
MEMPHIS, TENNESSEE 38117 USA

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with this labeling

STORAGE AND DISPOSAL

STORAGE. Do not contaminate water food or feed by storage or disposal Open dumping is prohibited Do not store this product near fertilizers seeds insecticides or fungicides Do not store near heat or open flame

PESTICIDE DISPOSAL Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to federal state or local procedures under the Resource Conservation and Recovery Act

CONTAINER DISPOSAL Triple rinse (or equivalent) adding rinsate to spray tank Offer rinsed container for recycling or reconditioning, or dispose of in a sanitary landfill or by incineration if permitted by state and local authorities

General Information: Performance of this product may be affected by local conditions crop varieties and application method User should consult local extension service, agricultural experiment or university weed specialists and state regulatory agencies for recommendations in your area

Best results are obtained when product is applied to young succulent weeds that are actively growing Application rates lower than recommended will be satisfactory on susceptible annual weeds For perennial weeds and conditions such as the very dry areas of the western states, where control is difficult, the higher recommended rates should be used

When product is used for weed control in crops, the growth stage of the crop must be considered

Some plants and weeds (especially woody varieties) are difficult to control and may require repeat applications Application rates should be 1 to 5 gallons of total spray by air or 5 to 25 gallons by ground equipment unless otherwise directed In either case use the same amount of 2 4-D recommended per acre [illegible] with oil surfactants or other adjuvants unless [illegible] herbicides [illegible]

[illegible]

susceptible [illegible]

[illegible]

application [illegible]

one of the least [illegible] 2 4 D [illegible] released by this product is insufficient to cause damage to adjacent susceptible crops

Because coarse sprays are less likely to drift than fine, do not use equipment such as hollow cone small orifice nozzles or conditions such as high pressure that produce such sprays

Product should not be allowed to come into contact with desirable susceptible plants such as beans cotton fruit trees grapes legumes ornamentals peas tomatoes and other vegetables Product should not be used in greenhouses Excessive amounts of this product in the soil may temporarily inhibit seed germination and all plant growth

Users should note that herbicide treatment of public water requires a permit from appropriate state agency in most states Your State Conservation Department or Game and Fish Commission will aid you in securing a permit in your State

If stored below freezing [illegible] be warmed to at least 40 F and agitated before using [illegible] the efficiency of the product

Spray equipment used [illegible] should not be used for any other [illegible] until thoroughly [illegible] with a suitable chemical cleaner

Spray Preparation Add the recommended amount of product to approximately one-half the volume of water to be used for spraying Agitate well then add the remainder of the water Continue agitation during application until spray tank is empty

Use in Liquid Nitrogen Fertilizer Product may be combined with liquid nitrogen fertilizer suitable for foliar application on corn grass pastures or small grains in one operation Use Weed Rhap A 4D according to directions on the label for those crops Use liquid fertilizer at rates recommended by supplier or extension service specialist Mix the Weed Rhap A 4D and fertilizer according to the following instructions

- Fill the spray tank approximately 1 2 full with the liquid fertilizer In a separate clean container mix the amount of A 4D to be used with an equal amount of water Add the Weed Rhap A 4D mixture to the spray tank while agitating Add the remainder of the liquid fertilizer while continuing to agitate Apply immediately maintaining agitation during application until tank is empty DO NOT APPLY DURING COLD (NEAR FREEZING) WEATHER Spray mixture must be used immediately and may not be stored

Note Pre mixing the A 4D with an equal amount of water is important

WHERE TO USE

Weed Rhap A 4D is used to control broadleaf weeds in cereal crops corn sorghum weeds and brush in rangeland pastures rights of way similar non-crop uses tree injection and for aquatic weed control

PLANTS CONTROLLED

Weed Rhap A 4D will kill or control the following in addition to many other noxious plants susceptible to 2 4 D

Arrowhead	Elderberry	Puncturevine
Artichoke	Goldenrod	Purslane
Bindweed (hedge field and European)	Ground ivy	Rush
Bitter wintercress	Hemp	Russian thistle
Boxelder	Hoary cress	Sagebrush
Buckhorn	Honeysuckle	Shepherdspurse
Bull thistle	Indigo	Smartweed
Bulrush	Ironweed	Sowthistle
Burdock	Jimson weed	Stinkweed
Bur ragweed	Lambsquarters	Sumac
Buttercup	Locoweed	Sunflower
Canada thistle	Mexican weed	Virginia creeper
Catnip	Morning glory	Waterhyacinth
Chickweed	Mustard	Waterlily
Chicory	Nutgrass	Waterprimrose
Cocklebur	Parrotfeather	Wild garlic
Coffeebean	Pennywort	Wild lettuce
Creeping jenny	Pigweed	Wild onion
Curly indigo	Plantain	Wild radish
Duckweed	Poison ivy	Willow
	Pokeweed	Witchweed
	Povertyweed	

CROPS

Small grains not underseeded with a legume (barley, oats, wheat, rye) See table for recommended use rates

Spray when weeds are small [illegible]

[illegible]

Spring Planted Oats [illegible]

Apply after the fully tillered stage [illegible] dough stage

Fall Planted Oats Apply after [illegible] boot stage Some difficult weeds may require [illegible] 1 1 2 pints per acre for maximum control but crop injury [illegible] Do not spray during or immediately following cold weather

Note Oats are less tolerant to 2 4 D than wheat or barley and more likely to be injured Do not forage or graze treated grain field within 2 weeks after treatment with 2 4 D Do not feed treated straw to livestock

Corn See table for recommended use rates

Preemergence Apply Weed Rhap A 4D [illegible] after planting but before corn emerges [illegible] rates on heavy soils [illegible]

Post Emergence Best results [illegible] and corn is 5 to 18 inches tall [illegible] nozzles Do not apply [illegible] and temperature and [illegible] per acre rate to reduce [illegible] 10 days to prevent stalk breakage [illegible] brittleness caused by 2 4 D Application rates of up to 1 pint per acre may be used to control some hard to control weeds However the possibility of injury to the corn is increased

If corn is over 8 inches tall use drop nozzles to keep spray off corn foliage as much as possible Do not use with oil atrazine or other adjuvants Since the tolerance to 2 4 D of individual hybrids varies consult your local Extension Service Agricultural Experiment Station or University Weed Specialist for information

Pre-Harvest After the hard dough [illegible] apply 1 to 2 pints per acre of Weed Rhap A 4D by air or ground [illegible] perennial weeds decrease weed seed [illegible] such as Bindweed Cocklebur Dogbane [illegible] Velvet leaf and vines that interfere with harvesting Do not forage or feed corn fodder to livestock for 7 days following application

Sorghum (Milo) See table for recommended rate

Apply to sorghum when crop is 4 to 12 inches [illegible] well established Use drop nozzles when [illegible]

not apply from flowering to dough stage Rates of up to 1 pint per acre may be used to control some hard to control weeds However, the chance of crop injury is increased with the higher rates Do not use with oil Use lower rate if conditions of high temperature and high soil moisture exist

Rice: See table for recommended rate

Apply Weed-Rhap A-4D in sufficient water to cover one acre when weeds are in active growth stage Rice plants are sensitive to 2,4-D in early stages of growth, therefore, it is advisable to delay spraying until the second or third week after flooding. Water in the field should be shallow enough to permit direct application of the spray material to the weeds Make all treatments well in advance of heading

Sugarcane: See table for recommended rate

Apply as a pre- or post-emergent spray in the spring after canes emerge and through lay-by Consult local agricultural experiment or extension service weed specialists on specific use of this product or in combination with Dowpon to control broadleaved and grass weeds

RECOMMENDED RATES OF WEED-RHAP A-4D PER ACRE

Crop	Dosage Per Acre** Normal rates (usually safe to crop)	Higher rates for Special Situations* (more likely to injure crop)
SMALL GRAINS		
Spring Postemergence		
wheat, barley, rye	2 1/2 to 1 1/2 3 pints	2 to 3 pints
oats	1 1/2 to 1 pint	1 to 2 pints
Preharvest, dough stage		
wheat, barley, oats	1 to 2 pints	2 to 3 pints
CORN		
Preemergence	2 to 4 pints	
Emergence	1 pint	1 pints
Postemergence		
up to 6 inches tall	1/2 to 1 pint	
6 inches to tasseling (use only directed spray)	1 pint	1 to 2 pints
Preharvest	1 1/2 to 2 pints	
SORGHUM		
[illegible]	[illegible]	[illegible]

Ornamental Turf

Use 1 to 3 pints of Weed-Rhap A-4D in enough water to give good coverage to one acre on established stands of perennial grasses depending on type of weeds and stage of growth Do not use on creeping grasses such as Bent except for spot spraying Newly seeded turf should not be treated until after the second mowing and the lower dosage rate should be used

Grass Seed Crops

Apply 1 to 4 pints of Weed-Rhap A-4D in the Spring or Fall to control broadleaf weeds in grass being grown for seed Do not apply from early boot to milk stage Spray seedling grass only after the five-leaf stage using 3/4 to 1 pint per acre to control small seedling weeds After the grass is well established higher rates of up to 4 pints can be used to control hard to kill annual or perennial weeds For best results apply when soil moisture is adequate for good growth Do not use on Bent unless injury can be tolerated Do not graze dairy animals nor cut forage for hay within 7 days of application

Fallow Land.

On established perennial species such as Canada thistle and field bindweed apply up to 3 quarts per acre of Weed-Rhap A 4D For annual broadleaf weeds, apply 1 to 2 quarts per acre Do not plant any crop for 3 months after treatment or until 2,4-D has disappeared from soil

Established Pastures and Rangelands:

Use 1 to 4 pints in sufficient water to give good coverage to one acre depending on type of weeds and stage of growth Use only on established stands of perennial grasses DO NOT graze animals on treated areas within 7 days of application

General Weed Control (Airfields, roadsides, vacant lots, drainage ditch banks, fence rows, industrial sites and similar areas

Use 1 to 3 quarts of Weed-Rhap A-4D per acre Usually 2 quarts per acre will give adequate control Do not use on herbaceous ground covers or creeping grass such as Bent Legumes will usually be damaged or killed Deep-rooted perennials may require repeat applications Do not use on freshly seeded turf until grass is well established Delay reseeding for 3 months or until 2,4-D has disappeared from the soil

Woody Plant Control:

To control woody plants susceptible to 2,4-D such as Alder, Buckbrush, Elderberry, Sumac, and Willow on non crop areas, use 2 to 3 quarts of Weed-Rhap A-4D in 100 gallons of water Wet all parts of the plants thoroughly, including stem and foliage to the point of runoff Higher volumes of up to 400 gallons are necessary where the brush is very dense and over 6 to 8 feet high Applications are more effective when made on actively growing plants Treatment should not be made during time of severe drought or in early Fall when leaves lose their green color Hard to control species may require re-treatment next season

Tree Injection:

For control of unwanted hardwoods such as elm, oak, hickory and sweetgum in forest and other non-crop areas apply undiluted A-4D by injecting 1 ml through the bark using one injection per inch of trunk diameter measured at breast height (4 1/2 feet) For harder to control species (ash, maple, dogwood) use 2 ml undiluted A-4D per injection All injections should be as near the root collar as possible and should be evenly spaced around the trunk Injections may be made at any time of the year but are most effective during the growing season Maples should not be treated during the spring sap rise

Aquatic Applications:

Weeds and Brush on Irrigation Canal Ditchbanks — Seventeen Western States: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, New Mexico, Nevada, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, Wyoming.

For control of annual and perennial broadleaf weeds, apply 1 to 2 quarts of Weed-Rhap A-4D per acre in approximately 20 to 100 gallons per acre of total spray Treat when weeds are young and actively growing before the bud or early bloom stage For harder to control weeds, a repeat spray may be needed after 3 to 4 weeks for maximum results using the same rates

Apply no more than 2 treatments per season For woody brush and patches of perennial broadleaf weeds, mix one gallon of Weed-Rhap A-4D in 150 gallons of water Wet foliage thoroughly using approximately 1 gallon of spray solution per square rod

Spraying Instructions:

Low pressure (10 to 40 psi) power spray equipment should be used and mounted on a truck, tractor or boat Apply while traveling at a speed to avoid accidental concentration of chemical in the water spray when [illegible] 5 mph or less Do not use in small canals less than [illegible] which water will be used for drinking purposes

Boom spraying onto water surface must be held to a minimum of 10 feet cross-stream spraying to opposite banks should be permitted When spraying shoreline weeds allow no more than 2-foot overspray onto water with an average of less than one-foot overspray to prevent introduction of greater than negligible amounts of chemical into the water

Do not allow dairy animals to graze on treated areas for at least 7 days after spraying Water within treated banks should not be fished

For Aquatic Weeds in Lakes, Ponds, Drainage Ditches, and Marshes

Use 2 1/2 to 4 1/2 pints of product in 50 to 100 gallons of water per acre Spray to wet foliage thoroughly Application should be made when leaves are fully developed above waterline and plants are actively growing Your State Conservation Department or Game and Fish Commission will assist you in determining the best time and rate for application under [illegible] conditions

DO NOT APPLY to more than 1/3 to 1/2 of a lake or pond in any month because excessive decaying vegetation may deplete oxygen in the water and kill fish

Do not contaminate water used for irrigation or domestic purposes

Perennial and other hard to control weeds may require a higher rate to give adequate control

CONDITIONS OF SALE AND WARRANTY

VERTAC AND THE SELLER OFFER THIS PRODUCT, AND THE BUYER AND USER ACCEPTS THIS PRODUCT ONLY UNDER THE FOLLOWING AGREED CONDITIONS OF SALE AND WARRANTY

The directions for use of this product are believed to be adequate and should be followed carefully However it is impossible to take into account all variables and to eliminate all risks associated with its use in agriculture Damage may result because of conditions which are beyond the control of Vertac or the Seller Vertac warrants only that this product conforms to the chemical description on the label and is believed to be reasonably effective for the uses referred to in the Directions for Use when used as directed under normal conditions VERTAC MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY In no case shall Vertac or the Seller be liable for consequential special or indirect damages resulting from the use, handling of this product Any variation or exception from this warranty must be in writing and signed by an authorized Vertac representative