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GROUP	5	HERBICIDE
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Hyvar[®] X

Weed and Brush Killer

Wettable Powder

COMMERCIAL

READ THE LABEL BEFORE USING

GUARANTEE: Bromacil 80%

REGISTRATION NO. 8637 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 25 kg

Product Information: 1-888-462-6822

AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660
United States

In case of spills, poisoning or fire, telephone emergency response number
1-888-462-6822 (24 hours a day)

PRECAUTIONS:**KEEP OUT OF REACH OF CHILDREN**

MAY IRRITATE EYES, NOSE, THROAT AND SKIN

Avoid breathing dust or spray mist.

Avoid contact with skin, eyes and clothing.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be allowed in the area during application.

Do not use in residential areas. Residential areas are defined as sites where bystanders including children may be potentially exposed during or after applying. This includes around homes, on school grounds, in parks, playgrounds, playing fields around public buildings or any other areas where the general public including children could be exposed.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted, fine textured or low in organic matter such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

Wear long pants, a long sleeve shirt, shoes and socks when handling this product. In addition, wear chemical resistant gloves during mixing, loading, cleanup and repair activities and during application when using a hand wand or a backpack/knapsack sprayer.

Avoid entry into treated area until spray has dried.

Wear a dust mask during mixing/loading.

FIRST AID:

INHALATION: If inhaled, move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice. **SKIN OR CLOTHING CONTACT:** In case of contact, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

EYE CONTACT: In case of contact, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

INGESTION: If swallowed, call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically. Medical personnel should contact AMVAC'S medical information services toll-free 1-888-462-6822.

IMPORTANT:

Injury to or loss of desirable trees or other plants may result from failure to observe the following: DO NOT apply, or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. DO NOT use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of dry powder or spray to desirable plants. DO NOT contaminate domestic waters. Keep from contact with fertilizers, insecticides, fungicides, and seeds. Thoroughly clean all traces of HYVAR® X Weed & Brush Killer Wettable Powder from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

GENERAL INFORMATION:

HYVAR® X Weed & Brush Killer Wettable Powder is a wettable powder to be mixed in water and applied as a spray on non-cropland areas where bare ground is desired. It is an effective general herbicide for the control of many annual and perennial weeds, and is particularly useful for control of perennial grasses and brush. Effects are slow to appear and may not become apparent until the chemical has been carried into the root zone of the plants by moisture. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall, and other conditions. HYVAR® X Weed & Brush Killer Wettable Powder is non-corrosive to equipment, non-volatile, and non-flammable.

DIRECTIONS FOR USE:

Apply HYVAR® X Weed & Brush Killer Wettable Powder just before or during the period of active growth of weeds. Sufficient moisture from rainfall or artificial means is necessary after treatment to carry the chemical into the root zone of the weeds. If dense growth is present, results will be improved if vegetation is removed before treatment. Do not apply when ground is frozen.

Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover measured area to be treated. Weigh the proper amount of HYVAR® X Weed & Brush Killer Wettable Powder and mix into necessary volume of water (minimum of 20 L per kg of HYVAR® X Weed & Brush Killer Wettable Powder). Material must be kept in suspension at all times by continuous agitation. Except for small areas, use fixed-boom power sprayers properly calibrated to insure constant rate of application. Openings in screens should be equal to or larger than 50 mesh. Agitate by mechanical or hydraulic means in the spray tank. If by-pass or return line is used, it should terminate at bottom of tank to minimize foaming. Do not use air agitation. For treating small areas, a tank-type hand sprayer or sprinkling-can may be used; shake or stir frequently.

DO NOT apply by air.

Do not treat ditches, wellheads, bridge approaches. Do not treat sites that are adjacent to and surrounding water supply reservoirs, supply streams, lakes and ponds.

DO NOT apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats. Do not contaminate the above aquatic habitats when cleaning and rinsing spray equipment or containers.

DO NOT apply during periods of dead calm or when winds are gusty.

Buffer zones: A buffer zone of 65 metres is required between the point of direct application and the closest downwind edge of sensitive aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands).

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

Apply no more than 16.8 kg of HYVAR® X Weed & Brush Killer Wettable Powder per hectare per year.

Make no more than two applications per year.

GENERAL WEED CONTROL:

To control most weeds on non-cropland areas such as RAILROAD and PIPELINE RIGHT OF WAYS, PETROLEUM TANK FARMS, LUMBERYARDS, STORAGE AREAS, and INDUSTRIAL PLANT SITES: Apply 7.75 to 13.5 kg HYVAR® X Weed & Brush Killer Wettable Powder per ha just before or during the period of active growth of weeds. This treatment will control annual and perennial grasses and most broadleaved weeds such as crabgrass, foxtail, pigweed, ragweed, quackgrass, wild carrot, and dandelion. Use higher rates on soils, high in organic matter (5% or more) or on clay soil in Eastern Canada.

Retreatment: Apply 3.25 - 6.75 kg per ha when annual weeds and grasses reappear on sites where weed growth has been controlled.

For Small Areas: 135 g of HYVAR® X Weed & Brush Killer Wettable Powder per 100 m² is approximately 13.5 kg per ha.

BRUSH CONTROL

HYVAR® X Weed & Brush Killer Wettable Powder may be used to control undesirable woody plants on utility transmission lines, airports, telecommunication sites, storage areas and other non cropland sites such as farm buildings and fence lines not immediately adjacent to cropland or desirable trees or shrubs. Final kill of brush may not take place until the year following treatment. Apply in spring or summer as a basal (spot) treatment.

NOTE: For effective brush control and prevention of damage to desirable vegetation, do not apply to brush standing in water. Do not use in irrigation ditches nor on rights of way or other sites where marketable timber or other desirable trees or shrubs are immediately adjacent to the treated area.

Treatment may be expected to control Alder, Maple, Aspen Poplar, Ash, Sumac, Balsam Poplar, Oak, Cherry, Elm, Basswood, Hawthorn, Willow, Birch, Spruce, Dogwood, Hemlock, and Pine.

Mix 870 g in 10 L water and apply at the rate of 30 to 60 mL per stem 5 to 10 cm in basal diameter. Wet base of stem to run-off.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, HYVAR® X Weed & Brush Killer Wettable Powder is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to HYVAR® X Weed & Brush Killer Wettable Powder and other Group 5 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of HYVAR® X Weed & Brush Killer Wettable Powder or other Group 5 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural, (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.

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- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes. For further information or to report suspected resistance, contact your local AMVAC representative, or call AMVAC toll-free at 1-888-462-6822.

DISPOSAL

1. Thoroughly empty the contents of the container into the application device.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the empty container in accordance with provincial requirements.
5. For further information on the disposal of unused, unwanted product contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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