

2021-1386
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KROVAR® I DF HERBICIDE

DRY FLOWABLE

FOR WEED CONTROL ON NON-CROP LAND AREAS INCLUDING: RAILROAD RIGHTS-OF-WAY,
LUMBERYARDS, PIPELINE RIGHTS-OF-WAY, STORAGE AREAS, PETROLEUM TANK FARMS,
INDUSTRIAL PLANT SITES

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

ACTIVE INGREDIENT: Diuron 40%
Bromacil 40%

REGISTRATION NO. 22964 PEST CONTROL PRODUCTS ACT



CAUTION POISON

DANGER - EYE IRRITANT

NET CONTENTS: 20 KG

AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660
United States
1-888-462-6822

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 contaminate any body of water.
Wash thoroughly with soap and water after use.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated 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.

Wear long pants, a long sleeve shirt, shoes and socks, goggles or face shield when handling this product. In addition, wear chemical resistant gloves and a dust/mist respirator during mixing, loading, clean-up and repair activities and during application when using a hand wand or a backpack/knapsack sprayer. In addition, wear a chemical-resistant apron during mixing, loading, clean-up and repair activities. If applying from inside a closed cab, applicators must wear long pants, a long-sleeved shirt and shoes plus socks. When exiting the cab into the treated area, in addition to this protective equipment, applicators must wear chemical-resistant gloves and a dust/mist respirator. This protective clothing must be taken off before re-entering the cab and stored in a chemical-resistant container to prevent contamination of the inside of the cab.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours or until spray has dried.

Users should wash their hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.

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.

ENVIRONMENTAL HAZARD:

TOXIC to aquatic organisms and terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE.**

Toxic to aquatic organisms. Do not apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs or wetlands) and estuarine/marine habitats. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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.

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

FIRST AID:

INHALATION:

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 poison control centre or doctor for further treatment advice.

IF ON SKIN OR CLOTHING:

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:

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:

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.

For medical emergencies call 1-888-462-6822 (24 hours).

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, seeds, food, or feed.

DISPOSAL:

1. Triple or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instructions 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 container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product contact the manufacturer or 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.

<<DFU Booklet>>

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

For medical emergencies call 1-888-462-6822 (24 hours).

TOXICOLOGICAL INFORMATION: Treat symptomatically

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 spray to desirable plants. DO NOT contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides and seeds.

Thoroughly clean all traces of KROVAR® I DF Herbicide from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle and screens (clean these parts separately).

DO NOT APPLY BY AIR.

GENERAL INFORMATION

KROVAR® I DF Herbicide is a dry flowable to be mixed in water and applied as a spray on non-crop land 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. Effects are slow to appear and may not become apparent until the chemical has been carried into the root zone of the weeds by moisture. The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall, and other conditions.

KROVAR® I DF Herbicide is non-corrosive to equipment, non-volatile, and non-flammable.

DIRECTIONS FOR USE

KROVAR® I DF Herbicide should be used only in accordance with recommendations on this label.

Apply KROVAR® I DF Herbicide 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 the quantity of water necessary to uniformly cover a measured area to be treated. Weigh the proper amount of KROVAR® I DF Herbicide and mix into the necessary volume of water (minimum of 20 L per kg of KROVAR® I DF Herbicide. Water serves only as a carrier.

Material must be kept in suspension at all times by continuous agitation. Except for small areas, use fixed-boom power sprayers properly calibrated to ensure 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.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) classification indicated in the table under “Buffer zones”.

For application to rights-of-way, the best available application strategies which minimize off-site drift, including meteorological conditions (e.g. wind direction, low wind speed) and spray equipment (e.g. coarse droplet size, minimizing height above canopy), should be used. Do not directly apply to any aquatic habitats that are traversed by the rights-of-way.

- Buffer zones: The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Use	Buffer Zones (m) Required for Protection of:		
		Aquatic Habitats at Water Depths of:		Terrestrial Habitats
		Less than 1m	Greater than 1m	
Field Sprayer ^a				
	Non-crop areas (coarse spray) ^b	15	10	60 ^c

- a For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy or ground, the labelled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy or ground, the labelled buffer zone can be reduced by 30%.
- b DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) coarse classification.
- c Buffer zones for protection of terrestrial habitats are not required for applications to rights-of-way including railroad ballast, rail and hydro rights-of-way, utility easements and roads and training grounds on military bases.

When a second application is performed, observe a minimum interval of 90 days between the first application and retreatment.

Do not use in residential areas or areas where bystanders may be in contact with treated foliage.

Residential areas are defined as sites where bystanders including children may be potentially exposed during or after spraying. This includes around homes, school, parks, playgrounds, playing fields, public buildings.

Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and parks is minimal. Take into consideration meteorological conditions (e.g.

wind speed, wind direction, temperature) as well as application equipment and sprayer settings used for application.

Apply no more than 33.75 kg of KROVAR® I DF Herbicide per hectare per year. Make no more than two applications per year. Apply no more than 22.5 kg/ha of this product (including spot treatment) per application, or in a single maximum application of 33.75 kg/ha for sites receiving high rainfall and covered in dense vegetation.

ENVIRONMENTAL HAZARD:

TOXIC to aquatic organisms and terrestrial plants. Observe buffer zones specified under **DIRECTIONS FOR USE.**

Toxic to aquatic organisms. Do not apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs or wetlands) and estuarine/marine habitats. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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.

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

GENERAL WEED CONTROL:

To control most weeds on non-cropland areas such as RAILROAD and PIPELINE RIGHTS-OF-WAY, PETROLEUM TANK FARMS, LUMBERYARDS, STORAGE AREAS, AND INDUSTRIAL PLANT SITES:

Apply 13.5 - 18 kg of KROVAR® I DF per ha to control annual and perennial grasses and most broadleaved weeds such as crabgrass, foxtail, pigweed, ragweed, quackgrass, wild carrot, and dandelion. Apply KROVAR® I DF Herbicide just before or during the period of active growth of weeds.

Use higher rates on soils high in organic matter (5% or more) or on clay soil in Eastern Canada. Use 13.5 kg rate on sand or sandy loam soils only.

RE-TREATMENT:

Apply 6.75 - 9 kg Of KROVAR® I DF per ha when annual weeds and grasses reappear on sites where weed growth has been controlled.

FOR SMALL AREAS:

180 g of KROVAR® I DF Herbicide per 100 m² is equivalent to 18 kg per ha. Apply in a minimum water volume of 2 L per 100 g.

KROVAR® I DF Herbicide + TELAR® Herbicide TANK MIXTURE

TELAR® Herbicide may be tank mixed with KROVAR® I DF Herbicide for control of Canada thistle, field horsetail, kochia, Russian thistle, and dandelion, and other broadleaf weeds controlled by TELAR® Herbicide. Apply 120 grams TELAR® Herbicide per hectare with the re-treatment rate (6.75 - 9.0 kg/ha) of KROVAR® I DF Herbicide. Add a non-ionic surfactant registered for use with TELAR® Herbicide to the spray mixture at 1 Litre/1000 L (0.1% v/v).

Refer to the "Non-Crop Land" Section of the TELAR® Herbicide label for instructions on timing of application.

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.

MIXING INSTRUCTIONS:

1. Fill the sprayer tank half full, and, with the agitator running, add the required amount of TELAR® Herbicide.
2. Add the rest of the water and then add the required amount of KROVAR® I DF Herbicide.
3. Add the required amount of surfactant.

STORAGE:

Store product in original container only, away from other pesticides, fertilizer, seeds, food, or feed.

DISPOSAL:

1. Triple or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instructions 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 container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product contact the manufacturer or 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:

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