

2018-2025  
2018-12-14

## Munger Horticultural Vinegar Plus Liquid Herbicide

For non-selective vegetation control in and around the garden, established trees and shrubs, sidewalks, driveways, patio, non-crop areas, right-of way and industrial land sites. Leaves no harmful residue in the soil.

COMMERCIAL

ACTIVE INGREDIENT: Acetic Acid 20%

KEEP OUT OF REACH OF CHILDREN  
READ THE LABEL BEFORE USING

REGISTRATION NO.: 29405 PEST CONTROL PRODUCTS ACT

CAUTION: SKIN IRRITANT DANGER: CORROSIVE TO EYES

NET CONTENTS: 5L -1050L, bulk

Munger Lawnscape Distribution  
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Munger Horticultural Vinegar Plus is a post emergent, foliar active, vegetation management product that is non-selective to green foliage and non residual in soil.

Areas of use: sidewalks, driveways and patios; railroad rights-of-way, power stations, and industrial sites; around farm buildings, storage areas, tank farms, in and around greenhouses, plant nurseries and golf courses; and in fencerows and vacant lots.

Retreatment is required for complete control of established perennial weeds.

Annual Weeds Controlled: Ragweed spp., Chickweed, Lamb's-quarters, Black Medic, seedling Canada fleabane.

Perennial Weeds Suppressed: Dandelion, Plantain spp., Clover spp., Wild Carrot, Toadflax, Quack Grass, Tufted Vetch, Hawkweed spp., Curled Dock, Canada thistle, Kentucky Bluegrass.

#### DIRECTIONS FOR USE

Best results are achieved from spring and early summer applications to actively growing young weeds. Degree of control depends on several factors, including size and stage at application.

Apply on a mostly sunny day with temperatures at or above 21° C (70° F). Small annual weeds may be completely controlled with a single application. Control of larger, more established weeds, not completely desiccated with one application may be short-term and require retreatment. Weeds that are mature, dormant or hardened due to moisture stress tend to be more tolerant to herbicide treatment.

Complete coverage of undesirable vegetation is necessary to achieve control. Only contacted vegetation will be affected. Seedling perennial weeds may be controlled with a single application; however, repeat application is required for control of regrowth of established perennial weeds. Rainfall within 1 hour of application will reduce degree of control. DO NOT re- enter or allow entry into the treated areas until the residues have dried. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

FOR EARLY SEASON ANNUAL WEED CONTROL, when weeds are small (3-5 leaf) and actively growing; mix a spray solution consisting of 1 L of product for each 3 L of water. Ensure adequate mixing. Spray unwanted vegetation to the point of wetness.

SPOT TREATMENT APPLICATION: Use a single nozzle or hand-gun applicator to direct the spray and thoroughly wet undesirable foliage.

FOR CONTROL OF LARGER ANNUAL WEEDS AND TOP GROWTH REDUCTION (SUPPRESSION) OF PERENNIAL WEED GROWTH. Mix a spray solution consisting of 1 L of product for each 2.25 L of water. Use an application system, solution volume and adequate spray pressure to ensure complete coverage of unwanted vegetation. Best results with larger weeds will be achieved by spot treatment. Retreatment is required for regrowth of perennial weeds .

FOR CONTROL OF SEEDLING CANADA FLEABANE, LARGER, ESTABLISHED ANNUAL WEEDS AND TOP GROWTH REDUCTION (SUPPRESSION) OF ESTABLISHED PERENNIAL WEEDS: Use full strength (undiluted) with adequate spray pressure to ensure complete coverage of unwanted vegetation. Best results with larger weeds will be achieved by spot treatment. Retreatment is required for regrowth of perennial weeds.

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**FOR CONTROL OF WEEDS IN GREENHOUSES:** To control weeds in non-crop areas of the greenhouse such as under planting benches, in walkways, and in beds after harvest, prepare a spray solution consisting of 1 L of product for each 3 L of water. Ensure adequate mixing. Spray weeds to the point of wetness using a medium droplet size to minimize drift. Complete coverage of the weeds is necessary to achieve control. Best results will be achieved if the weeds are actively growing. Avoid contact of the spray solution onto desirable vegetation.

**DO NOT** allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters.

This product is not registered for the control of pests in aquatic systems. **DO NOT** use to control aquatic pests. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

**DO NOT** apply this product through any type of irrigation system.

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 S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**DO NOT** apply by air.

**Buffer zones:**

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand- held or backpack sprayer and spot treatment, inter-row hooded sprayer, low-clearance hooded or shielded sprayers that ensure spray drift does not come in contact with orchard crop fruit or foliage, soil drench and soil incorporation.

For application to rights-of-way, buffer zones for protection of sensitive terrestrial habitats are not required; however, 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 sizes, minimizing height above canopy), should be used. Applicators must, however, observe the specified buffer zones for protection of sensitive aquatic habitats.

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, riparian areas 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	Crop	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitats*
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Non-crop	2	1	1	1	1

\* Buffer zones for the protection of terrestrial habitats are not required for use on rights-of-way including railroad ballast, rail and hydro rights-of-way and utility easements.

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For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.** Corrosive to the eye. DO NOT get in eye. May irritate skin. Causes mucous membrane irritation. Avoid contact with skin and clothing. Wash immediately after use. Wash contaminated clothing with soap and hot water before reuse. Avoid inhaling vapours or spray mist. A well ventilated area is required for task-related duties. DO NOT re-enter or allow entry into the treated areas until the residues have dried. Wear long-sleeved shirt, long pants, chemical resistant gloves, safety goggles or face shield, and shoes plus socks during loading, application, and when performing clean-up and maintenance activities. For broadcast application and application in areas with poor ventilation, the applicator must also wear a NIOSH/MSHA-approved vapour respirator.

Avoid all contact with desirable plants. Overspray or drift will injure contacted foliage. Avoid application to reactive metals such as aluminum, tin, iron, or items such as fencing or lawn furniture in order to prevent staining, mottling, or otherwise interfering with finished metal surfaces. Avoid spraying on windy days.

Apply only when the potential for drift to areas of human habitation or human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings.

This product may be toxic to aquatic organisms. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

## **ENVIRONMENTAL PRECAUTIONS**

Toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE. To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

## **FIRST AID**

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.

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.

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 further treatment advice.

If in eyes: 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.

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

### **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

### **STORAGE**

To prevent contamination store this product away from food or feed. Keep from freezing. Store in original container out of reach of children.

### **DISPOSAL**

1. Triple or pressure-rinse the empty container. Dispose of rinsings on bare ground.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on 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.