

Product Data

LIBERATOR 711

A Contact, Non-Selective Vegetation Killer

Typical Weed Control Problems:

- ✓ Heavy brush, as well as vegetation, under fence rows, road signs, bridge abutments, etc.
- ✓ Weeds growing near shrubs, gardens, hedges and other desirable or ornamental plants.
- ✓ Spot weed control in lawns and turf

LIBERATOR 711...Performance in Action.

- **LABOR SAVING CHEMICAL.** LIBERATOR 711 solves the problem of killing unwanted vegetation without the dangers of sterilizing the soil or killing surrounding growth. It kills on contact, but is inactivated with soil contact to virtually eliminate "migration kill". LIBERATOR 711 kills only the leaf it touches and will not leech under soil, therefore, it can be used right next to desirable plants.

PERFORMANCE BENEFIT: Maximum safety to desirable plants near ornamentals and shrubs.

- **ENDS TEDIOUS HAND WEEDING.** LIBERATOR 711 is a chemical weeder. Using minimum time and labor, it can be sprayed directly on growth to wipe it out down to the soil without affecting roots or stems of desirable plants.

PERFORMANCE BENEFIT: Eliminates the time-consuming, labor-absorbing job of hand weeding. Saves money.

- **EXCELLENT AQUATIC HERBICIDE.** LIBERATOR 711 is effective in eliminating aquatic weeds, grasses and algae, both under and above the water line. When used as directed, this product can be applied in ponds, lakes, streams and drainage ditches. LIBERATOR 711 rids oxidation ponds of sun-robbing weeds that make these ponds sluggish.

PERFORMANCE BENEFIT: One herbicide can handle both land and aquatic weed control. Reduces chemical inventory requirements.



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APPLICATIONS

LIBERATOR 711 is a non-selective vegetation killer used for the control of annual and perennial grasses, aquatic weeds and broadleaf weeds. **Places of Use Include:** **1. Aquatic Weed Control** - Both surface and subsurface, in ponds, lakes and drainage ditches. **2. General Weed Control in Non-Crop Areas** - Controls broadleaf weeds, brush and grasses. Kills most annuals and top kills perennials. It kills through the leaves only. **3. General Weed Control in Shrub Areas** - Chemical will not injure desirable plants as long as spray does not come in contact with leaves of these plants. Chemical becomes inactive on contact with soil, therefore, plant roots do not take up chemical. Also, this chemical does not build up and become toxic at a later date. **4. General Vegetation Control** - Around buildings and other installations, walkways, patios, storage areas, fence lines, parkways, driveways, drainage ditches and similar areas where any type of vegetation is undesirable.

DIRECTIONS

DIRECTIONS FOR USE: It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use on shrubs or ornamental plants being grown for sale or other commercial use, seed production, or research purposes.

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only persons applying this product may be in the area during application.

Non-Crop or Non-Planted Areas: To kill above ground weed growth around buildings and other institutions, ornamental gardens, walkways, patios, beneath greenhouse benches, fence lines, golf courses (sand traps), parkways and driveways: mix 2 1/2 gallons per 20 gallons of water (16 oz. per gal. water). Apply for full coverage and thorough weed contact. Apply preferably to young growth and up to seeding weeds. Repeat applications as necessary to maintain control, particularly on grasses and established weeds. Avoid spray contact with foliage, food crops or ornamental plants. Do not water treat areas for 24 to 36 hours after application. Do not allow entry of maintenance personnel into treated areas within 24 hours after treatment unless protective clothing is worn.

Water Treatments: Make application from a boat or other suitable craft either by injecting chemical below the water surface or by pouring it directly from the container into the water while slowly moving over the water surface. Repeat application may be necessary under conditions of heavy infestations or where reinfestation may readily occur from seed, fragmentation or escape. This product cation by weight (see dilution chart on right-hand side). Maximum rate 4 lbs. cation/surface acre-foot.

Foliage Spray Treatments:

Foliage spray treatments should be applied in sufficient water (150-200 gal. per acre) to thoroughly wet foliage. As the season progresses and vegetation increases in mass, the higher dosage indicated should be used and more uniform distribution is necessary.

TECHNICAL DATA

ACTIVE INGREDIENT:

Diquat dibromide [6,7-dihydrodipyrido (1,2-a;2',1'-c) pyrazinediium dibromide]*
..... 1.85%

INERT INGREDIENTS: 98.15%
TOTAL 100.00%

*Contains 0.10 lbs. Diquat Cation per gal. as 0.12 lbs. salt per gal.

Type: Water-based herbicide
pH: 6.0
Specific Gravity 1.02
Flammability Non-flammable
Dosage: See label instructions
Equipment Poly-V-Sprayer

APPROVALS

EPA Reg. No. 3862-129-13051

Water Treatment Directions

Water Treatment	ppm**
*Algae (Spirogyra and Pithophora spp.)	1/2 to 1 1/2
Bladderwort (Utricularia spp.)	1/4 to 1/2
Coontail (Ceratophyllum Demersum)	1 1/2 to 2 1/2
Elodea (Elodea spp.)	1 1/2 to 2 1/2
Naiad (Naias spp.)	1/4
*Pondweed (Potamogeton spp.)	1/2
Watermilfoil (Myriophyllum spp.)	1/4 to 1/2

Dilution Chart

Depth of Water and Gallons to Use Per Acre at Indicated PPM

Feet	Cation (by wt.)			
	1/4 ppm	1/2 ppm	1 ppm	1 1/2 ppm
1	7 gal.	14 gal.	28 gal.	42 gal.
2	14 gal.	28 gal.	56 gal.	84 gal.
3	21 gal.	42 gal.	84 gal.	126 gal.
4	28 gal.	56 gal.	112 gal.	168 gal.
5	35 gal.	70 gal.	140 gal.	210 gal.

Foliage Spray Treatments:.....	Amt./Acre
Salvinia(Salvinia rotundifolla).....	10 to 15 gal.
Water hyacinth(Eichhornia crassipes).....	10 to 15 gal.
Water lettuce(Pistia stratiotes).....	10 to 15 gal.



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