UNITED STATES	U.S. ENVIRONMENT AGEN Office of Pestic Registration Div Ariel Rios	NCY ide Programs vision (7505P)	EPA Reg. Number: 279-3317	Date of Issuance:	
RHAL PROTECTUS	1200 Pennsylva Washington,	nia Ave., NW			
	NOTICE OF PESTICIDI	G-		Expires May 5, 2009	
	<u></u>		Name of Pesticide		
	(under FIFRA, as amended)		Echelon TM Herbicide	Echelon TM 0.9% Granular Herbicide	
FMC Corporation 1735 Market Street Philadelphia, PA 1 Note: Changes in labelin		epted in connection with t			
This product is provided that yo 1. Subm	conditionally registered u: it and/or cite all data req	uired for registrat	th FIFRA sec. 3(c)	t under FIFRA sec.	
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> 6. Under the "First Aid" section, in the "If Swallowed" statement, delete this sentence: "Do not give any liquid to the person.", and replace with "Have person sip a glass of water if able to swallow."

7. Under the "Precautionary Statement" make the following changes:

a. Revise the third sentence to read: "Avoid breathing dust."

b. Revise the fourth sentence to read: "Do not get on skin. in eyes or on clothing."

c. Add this statement: "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

8. Revise the "Pesticide Storage" statement to read: "Store product in original container only, away from other pesticides, fertilizer, food or feed. Reseal open bag by folding top down and securing. Store in a cool, dry place and avoid excess heat."

Submit one copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(c). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller Product Manager (23) Herbicide Branch Registration Division (7505P) 2/13

Enclosure

# **ECHELON**<sup>TM</sup>

## 0.3% Granular Herbicide

For Preemergence and early Postemergence Control of Crabgrass. Selective Preemergence and Postemergence Control of Annual Grasses, Broadleaf weeds and Sedges in Turf Sites Including Residential and Institutional Lawns, Athletic Fields, Commercial Sod Farms, Golf Course Fairways and Roughs, Roadsides, Utility right-of-ways, Railways and Industrial areas

Active Ingredient:	By Wt.
Sulfentrazone:N-[2,4-dichloro-5-[4-(difluoromethyl-4,5-dihydro-3-methyl-5-oxo-	-
1H-1,2,4-triazol-1-yl]phenyl]methanesulfonamide	C.1%
Prodiamine: [N3,N3-Di-n-propyl-2,4-dinitro-6 (trifluoromethyl) m phenylenediamine	C.2%
Other Ingredients:	<u> 99.7%</u>
	10.0%

Echelon 0.3% Granular contains 0.3 pounds of active ingredient per pound of product U. S. Patent No. 4,818,275

### KEEP OUT OF REACH OF CHILDREN CAUTION

See additional precautionary information contained inside label booklet.

with COMMENTS In EPA Letter Dated: MAY 4 2007

ACCEPTED

1

Under the Federal Insecticide. Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No

219-3311

FMC Corporation

Agricultural Products Group

Philadelphia PA 19103

EPA Reg. No. 279-XXXX

Net Contents

EPA Est. 279-

	FIRST AID
IF INHALED	Move person to fresh air.
	<ul> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> </ul>
	Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR	Take off contaminated clothing.
CLOTHING	Rinse skin immediately with plenty of water for 15-20 minutes.
	Call a poison control center or doctor for 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 center or doctor for treatment advice.
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice.
	• Do not give any liquid to the person.
	Do not induce vomiting unless told to do so by the poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
HOTLINE N	IUMBER

For Information Regarding the Use of this Product Call 1-800-321-1FMC(1362)

### PRECAUTIONARY STATEMENTS

### Hazards to Humans (and Domestic Animals) CAUTION

Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing.

### Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

• Users should remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing.

### **Environmental Hazards**

This product is toxic to marine/estuarine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate. Groundwater advisory: Sulfentrazone is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Do not use on coarse soils classified as sand which have less than 1% organic matter. <u>Surface water advisory</u>: Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months postapplication. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely sha low groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product through any type of irrigation system. 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 in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. These requirements only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

### Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Re-entry Statement: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried.

### STORAGE AND DISPOSAL

Do not contaminate water, food of feed by storage or disposal.

Pesticide Storage: Store product in original container only, in a cool, dry place and avoid excess heat.

Spill: In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal:** If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

**Container Disposal:** Empty contents of bag completely into application equipment. Empty bags may be disposed of by placing in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### **GENERAL INFORMATION**

### **Turf Use Instructions**

Echelon is a selective pre-emergence and post-emergence herbicide for control of crabgrass, annual grass and broadleaf weeds and sedges in turf sites including residential and institutional lawns, athletic fields, commercial sod farms, golf course fairways and roughs, roadsides, utility right-of-ways, railways and industrial areas.

Echelon is a granular formulation containing 0.3 lbs. of active ingredient per pound of formulated product. The mode of action of Echelon herbicide involves uptake by both weed roots and shoots of existing weeds and prevention of growth by newly emerged weed seedlings.

### SPECIFIC USE INSTRUCTIONS IN TURFGRASS

#### Established Turf

This product may be used on seeded, sodded or sprigged turfgrasses that are well established. First application of this product can be made following the second mowing providing the grass has developed into a uniform stand with a good root system. Turf injury may result from application of this product on turf that is not well established or has been weakened by stresses such as unfavorable weather conditions, disease, chemical or mechanical influences.

Broadcast Echelon with suitable application equipment to ensure uniform coverage over the treatment area. A drop or rotary spreader designed to apply granular herbicide or insecticide is the preferred application of this product. Calibrate application equipment prior to application. Consult manufacturer operation manual for proper calibration and operation of application equipment. Apply 2.87 to 8.60 pounds per 1,000 square feet to control broadleaf weeds and grasses. See Table 1 for application rates based on turf grasses

When applied as directed under the conditions described, the following established grasses are tolerant to Echelon herbicide at the recommended use rates in a range from 0.250 to 1.125 lb. ai/acre (83 to 375 pounds/acre or 1.91 to 8.6 pounds/1,000 sq. ft.). Do not exceed 1.125 lb. ai/acre (375 pounds/acre) per calendar year.

Grass Type	<b>Recommended Use Rates</b> Do not exceed maximum use rates per turf species in a single application			
Cool Season Grasses	Lb. ai. per acre	Pounds per 1000 ft <sup>2</sup>	Pounds per acre	
Bentgrass, creeping <sup>1</sup> Fescue, fine <sup>2</sup> (Festuca rubra) Ryegrass, perennial (Lolium perenne)	0.25-0.375 <sup>3</sup> lb. ai.	1.91 2.87 lbs	83 – 125 lbs	
Bluegrass, Kentucky (Poa pratensis) Fescue, tall <sup>2</sup> (Festuca arundinacea)	0.57-0.753 lb. ai.	3.81 - 5.74 Ibs	166 – 250 lbs	
Warm Season Grasses	Lb. ai. per acre	Pounds per 1000 ft <sup>2</sup>	Pounds per acre	
Bahiagrass (Paspalum notatum) Buffalograss (Buchloe dactyloides) Carpetgrass (Axonopus affinis) Centipedegrass (Eremochloa ophuiroides) Kikuyugrass (Pennisetum clandestinum) Seashore Paspalum (Paspalum vaginatum) Zoysiagrass (Zoysia japonica)	0.57-0.753 lb. ai.	3.81 5.74 Ibs	166 – 250 lbs	
Bermudagrass (Cynodon dactylon) & hybrids	0.75-1.125 <sup>3</sup> lb. ai.	5.74 8.6 lbs	250 – 375 lbs	

Table 1. Tolerant grasses.

1 If bentgrass is mowed lower than 0.5 inches do not apply Echelon.

2 Use of this product on certain varieties of Chewing Fine Fescue or Tall Fescue cultivars may result in undesirable injury.

3 Echelon may be applied more than once per year if needed as long as total amount applied does not exceed the maximum application rate per turf type or 1.125 lbs. ai/acre (375 pounds/acre), whichever is lower.

Not all varieties of grasses have been tested. Consult your local FMC Technical Representative for additional recommendations on application rates for your local area or turf types.

Common Name	Scientific Name			
Bamyardgrass	(Echinochloa crus-galli)			
Bluegrass annual 1	(Poa annua)			
Carpetweed	(Mollugo verticillata)			
Carolina Geranium	Geranium carolinianum			
Chickweed, common <sup>2</sup>	(Stellaria media)			
Chickweed, mousear (from seed)	(Cerastium vulgatum)			
Crabgrass (large, Smooth) <sup>3</sup>	(Digitaria spp.)			
Crowfootgrass	(Dactyloctenium aegyptium.)			
Cupgrass, Woolly	(Eriochloa villosa)			
Foxtails, Annual	(Setaria spp)			
Goosegrass <sup>4</sup>	(Eleusine indica)			
Hairy Bittercress	Cardamine hirsute			
Henbit <sup>2</sup>	(Lamium amplexicaule )			
Itchgrass	(Rottboellia exaltata)			
Knotweed, prostrate	(Pohygonum aviculare)			
Kochia	(Kochia scoparia)			
Kyllinga, green	(Kyllinga brevifolia)			
Kyllinga, false	(Kyllinga gracillima)			
Lambsquarters, common	(Chenopodium album)			
Lovegrass	(Eragrostis spp.)			
Nutsedge, yellow	(Cyperus esculentus)			
Pancium (Texas,Fall)	(Panicum spp.)			
Pigweed, Redroot	(Amaranthus retroflexus)			
Purslane, Common	(Portulaca oleracea)			
Pusley, Florida	(Richardia scabra L.)			
Sedge, globe	(Cyperus globulosus)			
Sedge, cylindrical	(Cyperus retrorsus)			
Sedge, Surinam	(Cyperus surinamensis)			
Sedge, Texas	(Cyperus połystachyos)			
Shephardspurse <sup>2</sup>	(Capsella bursa-pastoris)			
Signalgrass, broadleaf	(Brachiaria playphylla)			
Speedwell	(Veronica spp.)			
Sprangletop	(Leptochola spp.)			
Spurge, prostrate	(Euphorbia humistrata)			
Witchgrass	(Panicum capillare L.)			
Woodsorrel, yellow (from Seed)	(Oxalis stricta)			

## Weed Controlled With Preemergence Application Table 2.

1. Poa annua is a winter annual. Applications of Echelon should be made in August or September to established, non overseeded turf before Poa Annua germinates. Consult local Cooperative Extension Service for more specific applications timings for your local area since August and September are approximate timings.

2. Apply Echelon in late summer, fall or winter before weed germinates for control.

3. Crabgrass control in cool season grasses from fall application:

Areas where the ground is subject to winter freezes, Echelon may be applied in the fall at rates listed in Table 1 (83-250 pounds per acre) for cool season grasses when soil temperatures are below 50°F, but prior to the ground freezing. This will provide control of crabgrass the following spring.

4. In areas of extended growing season and heavy pressure weed control will be enhanced by second application of Echelon 60-90 days after initial application

### Postemergence Control of Annual, Biennial & Perennial Broadleaf Weeds

Echelon herbicide will control or suppress the weeds listed in Table 3 when applied shortly after weeds have emerged. Do not exceed the application rate specified for the turf species in Table 1.

Weeds Controlled or Suppressed When Application Made Postemergence to Weeds	
Table 3	

Common Name	Scientific Name
Bittercress	(Cardamine spp.)
Black medic	(Medicago lupulina)
Buttercups	(Ranunculus spp.)
Carolina geranium	(Geranium carolinianum)
Carpetweed	(Mollugo verticillata)
Chickweed, common	(Stellaria media)
Chickweed, mousear	(Cerastium vulgatum)
Cinquefoil	(Potentilla spp.)
Clover	(Trifolium spp.)
Cudweed	(Gnaphalium spp.)
Dandelion	(Taraxacum officinale)
Dock, Curly	(Rumex crispus)
Evening primrose	(Oenothera biennis)
Fiddleneck	(Amsinckia spp.)
Filaree	(Erodium spp.)
Goldenrod	(Solidago spp.)
Ground ivy	(Glechema hederacea)
Henbit	(Lamium amplexicaule)
Knotweed, prostrate	(Pohygonum aviculare)
Kochia	(Kochia scoparia)
Lambsquarters, common	(Chenopodium album)
Lawn burweed	(Soliva pterosperma)
Lespedeza, common	(Lespedeza striata)
Mallow, common	(Malva neglecta)
Parsley piert	(Alchemilla arvensis)
Pigweed, Redroot	(Amaranthus retroflexus)
Pigweed, Tumble	(Amaranthus albus)
Pineapple weed	(Matricaria matricarioides)
Plantain, buckhorn	(Plantago lanceolata)
Puncture weed	(Tribulus terrestris)
Purslane, common	(Portulaca oleracea)
Pusley, Florida	(Richardia scabra)
Redweed	
	(Melochia corchorifolia)
Rocket, London	(Sisymbrium irio)
Smartweed, Pennsylvania	(Polygonum pensylvanicum)
Sorrel, Red	(Rumex acetosella)
Speedwell	(Veronica spp.)
Spurge, (annuals)	(Euphorbia spp.)
Spurge, prostrate	(Euphorbia humistrata)
Spurge, spotted	(Euphorbia maculata)
Star of Bethlehem	(Ornithogalum umbellatum)
Velvetleaf	(Abutilon theophrasti)
Violet, wild	(Viola pratincola)
Wild garlic	(Allium vineale)
Wild onion	(Allium canadense)
Woodsorrel, creeping	(Oxalis corniculata)
Woodsorrel, yellow	(Oxalis stricta)

# 10/13

### Application to Reseeded, Overseeded or Sprigged areas

Reseeding, overseeding or sprigging of treated areas within three to twelve (3-12) months after application of this product could inhibit the establishment of desirable grasses. [See table for exact intervals from application].

Best results are obtained for reseeding or overseeding when mechanical or power seeding equipment (slit seeders) are used to give good seed to soil contact and proper soil cultivation, irrigation and fertilization practices are followed.

Overseeding	Intervals	after	Echelon	Applications

Table 4

Total Amount of Echelon Applied	Interval (Months Before Overseeding)		
Pounds Product/Acre	North	Transition	South
83 - 125	3	3	3
166 250	4	4	4
375	6	5	5

### Sod Production

It is recommended that sod be established for at least six (6) months before an application of Echelon herbicide.

Do not apply this product within three (3) months of harvest.

### **Other Use Precautions**

Do not apply to golf course putting greens or tees.

Do not use on turgrasses other than those listed on this label.

Do not graze or feed livestock forage cut from areas treated with Echelon herbicide.

Do not apply directly to landscape ornamentals or ornamental beds.

Do not apply to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are *desirable* species.

Do not apply to creeping bentgrass if mowing height is less than 0.5 inch.

Do not harvest treated sod before 90 days after application.

Do not apply to newly set sod until the sod has rooted and exposed edges have grown in. Do not apply with adjuvants or surfactants.

### ADDITIONAL USE INSTRUCTIONS

### Railroad Rights-of-Way

Controls many weeds and maintains bare ground on railroad rights-of-way, including railroad yards, railroad crossings and railroad bridge abutments.

### Highway, Roadside, Pipeline and Utility Rights-of-Way

Controls many weeds and maintains bare ground in highway, roadside, pipeline and utility rights-of-way, Such areas would include, but are not limited to, guardrails, road shoulders, electric utility substations, pipeline pumping stations, around electric transmiss on towers, around distribution line poles plus other areas where complete vegetation control is desired. 11/13

### Industrial Areas, Fence Rows and Other Non-crop Sites

Controls weeds and maintains bare ground in industrial areas including production facilities, tank farms, storage areas, parking areas, lumber yards, airports, military installations, along fence rows, and in similar non-crop sites where complete vegetation control is needed.

### METHOD AND RATE OF APPLICATION FOR ADDITIONAL USES

For residual control of germinating weeds in non-crop land, apply as a broadcast treatment using 250 to 375 pounds (0.75 to 1.125 pounds active ingredient) per acre by ground in a suitable granular applicator.

DO NOT apply Echelon Herbicide to soils classified as sand with less than 1% Organic Matter.

### Timing

For best results, apply Echelon alone or in combination with other herbicides for residual control of weeds in late summer, fall, or early spring to insure adequate moisture for soil activation.

### Weeds Controlled

Echelon when applied postemergence at 250 to 375 pounds pet acre, will control the following weeds in non-cropland areas (Table 5). Use the higher labeled rates to extend length of control. Use the higher rates on sites with fine soil textures and on sires with more than 2% organic matter.

### Weeds Controlled from Preemergence Application to Bare Ground Prior to Weed Seed germination Table 5

Table 5				
Common Name	Scientific Name			
Barnyardgrass	(Echinochloa crus-galh)			
Bluegrass annual	(Poa annua)			
Carpetweed	(Mollugo verticillata)			
Carolina Geranium	Geranium carolinianum			
Chickweed, common	(Stellaria media)			
Chickweed, mouseat (from seed)	(Cerastium vulgatum)			
Crabgrass (large, Smooth)	(Digitaria spp.)			
Crowfootgrass	(Dactyloctenium aegyptium.)			
Cupgrass, Woolly	(Eriochloa villosa)			
Foxtails, Annual	(Setaria spp)			
Goosegrass	(Eleusine indica)			
Hairy Bittercress	Cardamine hirsuta			
Henbit 2	(Lamium amplexicaule )			
Itchgrass	(Rottboellia exaltata)			
Knotweed, prostrate	(Pohygonum aviculare)			
Kochia	(Kochia scoparia)			
Kyllinga, green	(Kyllinga brevifolia)			
Kyllinga, false green				
Lambsquarters, common	(Chenopodium album)			
Lovegrass	(Eragrostis spp.)			
Nutsedge, yellow	(Cyperus esculentus)			
Nutsedge, purple	(Cyperus rotundus)			
Pancium (Texas,Fall)	(Panicum spp.)			
Pigweed, Redroot	(Amaranthus retroflexus)			
Purslane, Common	(Portulaca oleracea)			
Pusley, Florida	(Richardia scabra L.)			
Sedge, globe	(Cyperus globulosus)			
Sedge, cylindrical	(Cyperus retrorsus)			
Sedge, Surinam	(Cyperus surinamensis)			
Sedge, Texas	(Cyperus połystachyos)			
Shephardspurse	(Capsella bursa-pastoris)			
Signalgrass, broadleaf	(Brachiaria playphylla)			
Speedwell	(Veronica spp.)			
Sprangletop	(Leptochola spp.)			
Spurge, prostrate	(Euphorbia humistrata)			
Witchgrass	(Panicum capillare L.)			
Woodsorrel, yellow (from Seed)	(Oxalis stricta)			

## CONDITIONS OF SALES AND LIMITATIONS OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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