HEALTHY HOMES. HEALTHY FAMILIES.

# Grow Smart, Grow Safe 🌮

# Online guide to lawn and garden products www.growsmartgrowsafe.org



Search hundreds of pesticide products and fertilizers for health and environmental hazards

- Search for products, active ingredients and pests
- 🞯 Take us shopping
- 🐲 Find least harmful pest controls

Household Hazards Line....206-296-4692 Toll-free 1-888-TOXIC-ED...1-888-869-4233 TTY 711



### WWW.GrowSmartGrowSafe.org



About Us | Contact Us | Site Map | Terms of Use

Household Hazards Line: 206-296-4692 Business Waste Line: 206-263-8899 Garden Hotline: 206-633-0224

### **GSGS** Ranking System

- Based on Thurston County system
- Reviews are of active ingredients
- Reviews include: degradation products, mobility, persistence, biocaccumulation, acute toxicity, non-target toxicity, carcinogenicity, developmental and reproductive toxicity, mutagenicity, neurotoxicity, skin and eye irritation, data gaps, and applicator safety







Grow Smart, Grow Safe, Search for safer lawn and garden products - Windows I	nternet Explorer				
Image: the second se		<b>▼</b> <del>\$</del>	× 🛃	philip dickey troubling bubbles	5
File Edit View Favorites Tools Help					
X 🍕 🕶					
🚖 Favorites 🛛 👍 🚳 Grow Smart, Grow Safe, A 🛭 🌍 LHWMP.org - Extranet Sign 🍘 Su	iggestedSites 🔻 🔋	Download	RefGrab-It	🕖 RefGrab-It bookmarklet	
B 🕈 🍘 http://www 🍘 http://cru6 🎯 LHWMP.org 🍘 http://www 🎯 New Tab	💋 Grow S	× 📑 🕴	<u>- </u>	🔹 📑 👘 🔹 Page 🕶 Saf	iety 🔹 Tools 👻 💽 🕻
Preen® Weed Preventer with Brilliant Blooms™ Fertilizer				trifluralin	
Green Light® Portrait® Broadleaf Weed Preventer Preen® Garden Weed Preventer				isoxaben bifumin	
Preen® Garden weed Preventer Monterey Weed Impede™				trifluralin oryzalin	
- · · ·		<b>J</b>	•	oryzaim	
Weeds - Selective, Post-Emergent					
EPA-registered pesticide products					
Lowest hazard					
Ortho® EcoSense Brand Lawn Weed Killer	0		0 0	iron HEDTA	
Ortho® elementals™ Lawn Weed Killer	0	0	0	iron HEDTA	
Moderate hazard					
Bayer Advanced™ Brush Killer Plus RTU		•	•	triclopyr TEA	
Lilly Miller® Brush, Blackberry & Vine Brush Killer RTU		•	•	(triethylamine salt) triclopyr TEA	
				(triethylamine salt)	
Ortho® MAX® Poison Ivy & Tough Brush Killer RTU	•	•	•	triclopyr TEA (triethylamine salt)	
Bayer Advanced™ Brush Killer Plus Concentrate	•	•	•	triclopyr TEA (triethylamine salt)	
Green Light® Cut Vine & Stump Killer	•	•	•	triclopyr TEA (triethylamine salt)	
Image® from Lilly Miller® Brush & Vine Killer	•	•	•	triclopyr TEA (triethylamine salt)	
Lilly Miller® Blackberry & Brush Killer	•	•	•	Nater Pollution Hazard - Potentia	l haza is high
Ortho® MAX® Poison Ivy & Tough Brush Concentrate	•	•	0	triclopyr TEA	
Ortho® Weed-B-Gon® Chickweed, Clover and Oxalis Killer for Lawns	•	•	•	(triethylamine salt) triclopyr TEA	
				(triethylamine salt)	
Highest hazard					
Lilly Miller® Ultra-Green Weed & Feed	•	•	•	2,4-D DMA (dimethylamine salt), MCPA dimethylamine salt, dicamba dimethylamine salt	
Scotts® Lawn Pro® Super Turf Builder® with PLUS 2® Weed Control		•	0	2,4-D acid, MCPP-p	
Scotts® Turf Builder® WinterGuard With PLUS 2® Weed Control			õ	2,4-D acid, MCPP-p	
Scotts® Turf Builder® with PLUS 2® Weed Control	•		0	2,4-D acid, MCPP-p	
Vigoro® Ultra Turf™ Phosphorus-Free Weed & Feed	•		•	2,4-D [2EHE] (2- s. klhexyl ester), Mc. and dicenter	
Vigoro® Ultra Turf™ Phosphorus-Free Winterizer Weed & Feed 2	•	•	•	2,4-D acid, MCPP- p, dicamba	
ACE® Spot Weed Killer 2	•	•	•	<u>2,4-D DMA</u> (dimethylamine salt), <u>MCPP-p</u> , dicamba	
Bonide® Poison Ivy & Brush Killer BK-32 RTU	•	•	•	dimethylamine salt <u>MCPA</u> dimethylamine salt, triclopyr TEA (triethylamine salt), dicamba	

🧭 IPM - Terrestrial Herbicide Reviews - Wir	ndows Internet Explo	rer								_	F
🚱 🗢 🖾 http://www.co.thurston.wa.us/health/ehipm/ehipm_terrestrialreview.html											
File Edit View Favorites Tools Help											
x € -											
🔶 Favorites 👍 🗐 Grow Smart, Grow Safe, A 🧔 LHWMP.org - Extranet Sign 🕖 Suggested Sites 🔻 🗎 Download RefGrab-It 🕖 RefGrab-It bookmarklet 🎽											
🔠 🗸 😥 http://w 😥 http://cr 😥 LHWMP 🎉 http://w 🎉 New Tab 🚺 Grow Sm 🌺 IPM 🗴 🏠 🔹 🔚 🔹 Page 🗸 Safety 🔻 Tools 🗸 🕢 *											
PHSS Home   A-Z Topics   Programs/Services   Site Map   Contact Us   SEARCH GO >											
EH Home	> IPM > Homeowners > Te	errestrial Herbicid	es								
ADMINISTRATION IPM -	TERRESTRIAL P	HERBICID	E REVIE	WS							
ENVIRONMENTAL HEALTH											_
Drinking Water & Wells	on the active ingre	edient to re	ad its re	view							
Environmental Services		•	Potentia	hazard is lo	w			Potentia	hazard is	moderate	
Fees, Forms & Permits			Potentia	hazard is h	igh			Unable to	o find usefu	ul data	
Food Safety		Thurston			_				Persist-	Bio-	
Waste)	ide Active Ingredient	County Rating	Human Toxicity	Other Mammals	Bird Toxicity	Bee Toxicity	Aquatic Toxicity	Mobility Hazard	ence Hazard	accumulation Hazard	
Gardening ammor	nium nonanoate	Passed	•	•	•	•		•	•	•	
Gravel Mines	1 h 66 h			-							
acids	nium salt of fatty	Passed	•	•	•	•	•	•	•	•	
Health Codes & Regulations											-
Healthy Home Environment clethod	dim	Passed	•	-	•	•	-		•	•	
INTEGRATED PEST MANAGEMENT (IPM) Developers Clopyra	alid	Passed	•	•		•	•			•	
Homeowners/Land Managers ferric s	ulfate	Passed	•	•	•	▲	•	•	•	•	
Internal County Programs	sulfate	Passed	•		•			•		•	
Glossary			·		·			•		•	
Triff Program Development	sulfate hydrate)	Passed	•		•	<b>A</b>		•		•	
Land Use Review											-
Publications & Brochures glypho		Passed	•	•		•		•			
Rodents, Bats, Insects & Other Vectors	DTA	Passed	•	•	•	•			•	•	
Septic Systems		Dec. 1									
	furon methyl	Passed	•	•	•	•	•	-			
	onic acid (nonanoic	Passed	•	•		•			•	•	
SOCIAL SERVICES acid)											
potassi acids	ium salt of fatty	Passed	•	•	•	•	•	•	•	•	
aminop	pyralid	Conditional	•	•	•	•	•	•	•	•	
dicamb	Ja	Conditional				•	•			•	
<							_		-	-	Ť.

<i> 6</i> h	🔋 http://www.co.thurston.wa.us/health/ehipm/pdf_terr/terrestrial%20actives/iron%20HEDTA.pdf - Windows Internet Explorer 📃 📑 🔀							
G	9-	http://w	www.co. <b>t</b>	hurston.wa.us/health/ehipm/pdf_terr/terrestrial%20actives/iron%20HEDTA.pdf	Section pesticide information		• ۹	
File		Go To Favor	rites He	elp				
Х	<b>e</b> -							
$\bigstar$	Favori	tes 🛛 👍 🔮	Grow !	Smart, Grow Safe, A 🛭 🌍 LHWMP.org - Extranet Sign 彦 Suggested Sites 🔻 自 Download RefG			»	
88 -	<b>6</b>	nttp://w 🧭	http://o	r 😥 LHWMP 😥 http://w 🌮 New Tab 🚺 Grow Sm 🎰 http: 🗴 🟠	🔹 🔝 🕤 📑 🖷 🝷 Page 👻 Safety 👻	Tools 🔻 🕜	<b>→</b> *	
H	H	=   🎝 -		🕨 1 / 3 🛛 🥒 Sign - 🛛 🛃 🔛 📅 Find -				
Ľ							^	
					Review Date: 7/2	21/2010		
ÚŬ,		iron	H	EDTA	CAS #: 170	84-02-5		
					<b>UAS</b> #. 176	04-02-0	≡	
?		Туре		Selective contact herbicide				
		Controls		Controls several broadleaf weed species in established turf (dandelion, daisy, thistles, chi	ickweed, creeping buttercup, moss, alga	ie, etc.)		
		Mode of Ac	ction	The exact mode of action is unknown, although, iron is a catalyst for oxygen reduction wh cause cellular damage and cell death (Reference 2).	ich produces reactive oxygen species th	lat can		
		Thurston	Coun	ty Review Summary:				
				ing iron HEDTA as a sole active ingredient pass Thurston County's review criteria. Iron HE	DTA is not expected to move off the site	e of		
		application	unless	it is washed off with excessive rain or irrigation water. Although the iron will remain in the s	soil where it is applied, the compound iror	n		
				ected to be persistent or bioaccumulate in animal or fish tissue. The risk for toxicity to huma ation is considered low. The risk to non-target birds, mammals, bees, and fish is considere		g		
	around small shallow ponds should be avoided because it could result in concentrations in the water that may cause harm to amphibians (Reference 2).							

#### MOBILITY

Property	Value	Reference	Rating	
Solubility (mg/L)	Miscible	2	High	
Soil Sorption (Kd=mL/g)	0.57	2	High	
Organic Sorption (Koc=mL/g)	Not found			

#### Mobility Summary:

Ø

Iron HEDTA mixes well in water and can be expected to bind poorly to soil without organic matter. With respect to leaching, Health Canada made the following statement: "Based on proposed use pattern (mode of application, application rate and use area), the risk for potential leaching and exposure of FeHEDTA to drinking water (surface or ground water) will be low" (Reference 2). The hazard for iron HEDTA to move off the site of application is rated moderate for potential to wash off the application with excessive rain or irrigation water but low in hazard for leaching potential for all soil types except sand and gravel.

### PERSISTENCE







# **Pesticide free public spaces**

### http://www.lhwmp.org/home/pfparks/index.aspx



Disclaimmer: The information provided in this application has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This application is not intended for use as a survey product or to generate legal documentation. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost



Disclaimer: The information provided in this application has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This application is not intended for use as a survey product or to generate legal documentation. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost

# **Pesticide free public spaces**

- Soft launch still recruiting
- 45 entities that own 240,000 acres of parkland in King County eligible
- Currently 30,000 acres Pesticide Reduced
- and 930 acres Pesticide Free

# Pesticide free public spaces

- Search by park name or zip code
- Click on symbol for more information about the park
- Currently Shoreline, Duvall and Black Diamond manage all parks Pesticide Free
  Seattle and others in both sections

# **Pesticide free public spaces**

• The map will list other types of public spaces, such as universities, zoos, etc and may spin off other map layers, such as hospitals and libraries.

Your ideas?

## **Pesticide free site:**

No EPA-registered pesticides are used in the normal maintenance of the park or recreation area.
Special exemptions are given for limited IPM based use of an herbicide to remove noxious weeds as mandated by county-wide noxious weed policy, or in the case of an insecticide used to remove dangerous insects (wasps, hornets) as long as adequate notification or signage is used to warn the public.

## **Pesticide reduced site:**

Children's play areas and lawns are pesticide free.
In outlying areas of the site: flower beds, fence lines, natural areas and playing fields, grounds managers use their own IPM policy to determine pest control needs and minimize use of pesticides. Lisa Niehaus, Local Hazardous Waste Management Program 130 Nickerson St., Suite 100 Seattle, WA 98109 Phone: (206) 263-3046 Fax: (206) 263-3070 e-mail: <u>lisa.niehaus@kingcounty.gov</u> www.lhwmp.org www.envirostars.org www.growsmartgrowsafe.org

Julia Singer, Local Hazardous Waste Management Program 130 Nickerson St., Suite 100 Seattle, WA 98109 Phone: (206) 263-3042 Fax: (206) 263-3070 e-mail: julia.singer@kingcounty.gov www.lhwmp.org www.envirostars.org www.growsmartgrowsafe.org