

The Low-Impact List from Oregon State University

Oregon lawⁱ requires pesticide applicators to use only low-impact pesticide products in and around schools. The law defines “low-impact” in specific terms.ⁱⁱ School districts may evaluate products according to the law and maintain their own list(s) of low-impact pesticide products. Oregon State University (OSU) has evaluated products upon request and created this list, which governing bodies are welcome to use in lieu of, or in addition to, their own low-impact lists.

Kaci Buhl is a Senior Faculty Research Assistant in the Department of Environmental and Molecular Toxicology Department at OSU. She added comments to the list in order to help school employees select and use products while minimizing the risks. She has background in pesticide toxicology and regulations, in addition to integrated pest management. She has coordinated the National Pesticide Information Center ([NPIC](#)) for several years, and serves as an expert in pesticide safety topics. She is the primary reviewer to determine whether pesticide products meet the legal criteria.

These good practices are often required, according to product labels:

- Store all pesticides in a cool, dry place with limited access.
- Store liquids below granules and dusts, just in case the liquid container leaks.
- At the very least, wear long pants, long sleeves, shoes and socks when handling or using any pesticide product.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Keep people and pets off treated areas until sprays or wetted granules have dried.
- Do not apply products in a way that will contact people, either directly or through drift.
- Do not apply pesticides to classrooms, athletic fields, or any other space while it is being used.

Requesting additions to the Low-Impact List from OSU:

- Attend the IPM Coordinator training event presented by the [OSU School IPM Program](#). We can only accept requests from designated IPM Coordinators who have already attended the training in 2013 or 2014.
- Make sure the product does not have a signal word of “WARNING” or “DANGER.”
- Make a request using this web-based form: [Request Form](#)
- Provide contact information if you would like to be notified of the outcome of your request.

The products listed here meet the criteria under the law for use in and around Oregon schools, and they are registered for sale in the state of Oregon. ⁱⁱⁱ **Use the EPA Registration number to match products on the list. The same product name can be used for different products, so matching the product name(s) below to products on the shelf is not sufficient.**

Herbicides

Product Name	EPA Reg. No.	Active Ingredient(s)	Read the label, use products only for labeled uses, and be aware of the following:
<i>Gly-Star Original</i> <i>Agristar</i>	42750-60	glyphosate, isopropylamine salt	Avoid contact with eyes or clothing. This product causes moderate eye irritation. Do not mix, store, or apply this product in galvanized steel or unlined steel (except stainless steel) containers.
<i>Aquamaster Herbicide</i> <i>Roundup Custom for Aquatic & Terrestrial Uses</i>	524-343	glyphosate, isopropylamine salt	Do not mix, store, or apply this product in galvanized steel or unlined steel (except stainless steel) containers.
<i>Crossbow</i> <i>Helena Crossbow Specialty Herbicide</i> <i>Crossbow Specialty Herbicide</i> <i>Crossbow Herbicide</i> <i>Crossbow Specialty</i>	62719-260 62719-260-5905 62719-260-829 62719-260-55467 62719-260-72693	2,4-D, butoxyethyl ester, triclopyr, butoxyethyl ester	Avoid contact with eyes or clothing. This product causes moderate eye irritation. It also contains potential allergens. All handlers must wear protective eyewear, chemical resistant gloves, and when exposed to the concentrate, a chemical-resistant apron. Small amounts of this product can damage sensitive plants like grapes and tomatoes. Do not allow spray drift. Vapor drift is also possible after the application if temperatures rise and humidity falls.
<i>The Andersons 0.25% Granular Dithiopyr Herbicide</i> <i>The Andersons Professional Turf Products Dimension 0.25g With Agpro</i>	9198-213	dithiopyr	Avoid contact with eyes or clothing. Avoid breathing dust. This product contains potential allergens. It may also damage some species of turf grass.

Envoy Plus Herbicide Select Max On Meadowfoam Select Max Herbicide	59639-132	clethodim	Avoid contact with eyes, skin or clothing. This product causes moderate eye irritation. It also contains potential allergens. Applicators and other handlers must wear chemical-resistant gloves and protective eyewear. Small amounts of this product may damage grass crops such as corn, rice, small grains, sorghum, or turf. Do not allow spray drift.
Glyphogan Plus Herbicide Quali-Pro Glyphosate Plus	66222-176	glyphosate, isopropylamine salt	Avoid contact with eyes, skin or clothing. This product causes moderate eye irritation. Do not mix, store, or apply this product in galvanized steel or unlined steel (except stainless steel) containers.
Gly Star Plus, Gly Star Pro Gordon's Farm Pronto Big N' Tuf, Gordon's Farm Pronto BigN'Tuf2 Nonselective Herbicide Hi-Yield Super Concentrate Kill-Zall II	42750-61 42750-61-2217 42750-61-7401	glyphosate, isopropylamine salt	Avoid contact with eyes, skin or clothing. This product causes moderate eye irritation. Do not mix, store, or apply this product in galvanized steel or unlined steel (except stainless steel) containers.
Landmaster BW	42750-62	2,4-D, isopropylamine salt, and glyphosate, isopropylamine salt	Avoid contact with eyes, skin or clothing. This product causes moderate eye irritation, and it may be harmful if absorbed through the skin. When you might be exposed to the concentrate (mixing, loading, cleaning up spills), you must wear a chemical resistant apron and gloves. Application around a cistern or well may result in contamination of drinking water. Do not mix, store, or apply this product in galvanized steel or unlined steel (except stainless steel) containers. Do not apply this product in the vicinity of grapes, tomatoes, or other 2,4-D sensitive plants.
Rodeo Accord Concentrate Aquapro Herbicide	62719-324 62719-324-67690	glyphosate, isopropylamine salt	Avoid breathing spray mist. This product is harmful if inhaled. Do not mix, store, or apply this product in galvanized steel or unlined steel (except stainless steel) containers.
RoundUp Pro Concentrate	524-529	glyphosate, isopropylamine salt	Avoid contact with eyes or clothing. This product causes moderate eye irritation. Do not mix, store, or apply this product in galvanized steel or unlined steel (except stainless steel) containers.
Roundup Promax Herbicide	524-579	glyphosate, potassium salt	Avoid contact with eyes or clothing. This product causes moderate eye irritation. Do not mix, store, or apply this product in galvanized steel or unlined steel (except stainless steel) containers.

<p>Snapshot 2.5 TG, Snapshot DG</p>	<p>62719-175</p>	<p>trifluralin, isoxaben</p>	<p>Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. This product causes moderate eye irritation and is harmful if inhaled. It also contains potential allergens. Users should change clothes immediately after handling this product.</p>
<p>Gordon's ProForm Professional Formulations T Zone Broadleaf Herbicide</p>	<p>2217-920</p>	<p>dicamba, 2,4-D (2-ethylhexyl ester), sulfentrazone, and triclopyr, butoxyethyl ester</p>	<p>Avoid contact with eyes or clothing. This product causes moderate eye irritation. Chemical resistant gloves are required for all activities. When you might be exposed to the concentrate (mixing, loading, cleaning up spills), you must wear a chemical resistant apron. Users should change clothes immediately after handling this product. Application around a cistern or well may result in contamination of drinking water. Small amounts of this product can damage sensitive plants like grapes, vegetables, and many ornamentals. Do not allow spray drift. Vapor drift is also possible after the application if temperatures rise and humidity falls.</p>
<p>Casoron 4G</p>	<p>400-168 400-168-59807</p>	<p>dichlobenil</p>	<p>Avoid contact with skin, eyes, or clothing. This product is harmful if inhaled. Chemical-resistant gloves are required for all activities. Users should change clothes immediately after handling this product. Application to sandy soils, particularly where the water table is shallow, could result in groundwater contamination. When working around desirable plants, do not allow granules to lodge in foliage, or accumulate in contact with tree trunks. Casoron comes in paper bags that have been known to rip easily.</p>

The products listed here meet the criteria under the law for use in and around Oregon schools, and they are registered for sale in the state of Oregon. **Use the EPA Registration number** to match products on the list. **The same product name can be used for different products, so matching the product name(s) below to products on the shelf is not sufficient.** If there is no EPA Registration Number, match the product name *and* the manufacturer/distributor name when comparing the list to products on the shelf.

Insecticides

Product Name	EPA Reg. No.	Active Ingredient(s)	Read the label, use products only for labeled uses, and be aware of the following:
<i>Prescription Treatment Wasp Freeze Wasp & Hornet Killer</i>	499-362	d-trans allethrin, d-phenothrin	Harmful if swallowed, inhaled, or if absorbed through the skin. Avoid breathing vapors or spray mist. Avoid contact with skin, eyes, or clothing. This product is flammable, and its contents are under pressure. Keep away from heat, sparks and open flame. May cause staining of asphalt and shingles. For outdoor use only. The best time of day to treat nests is in the evening or early morning. Stand 6-15 away from elevated targets, not directly underneath.
<i>Advion Ant Gel</i>	352-746, also found as 100-1498	indoxacarb	Avoid contact with skin, eyes, or clothing. Do not use this product in or on electrical equipment where a possibility of shock hazard exists. In food handling areas, this product may only be applied as a crack and crevice treatment where you can be sure that food, utensils, and food handling surfaces won't become contaminated.
<i>Advion Cockroach Gel Bait</i>	352-652	indoxacarb	Avoid contact with skin, eyes, or clothing. This product contains potential allergens. Do not use this product in or on electrical equipment where a possibility of shock hazard exists. In food handling areas, this product may only be applied as a crack and crevice treatment where you can be sure that food, utensils, and food handling surfaces won't become contaminated.
<i>Bee Bopper II ARI Wasp and Hornet Killer</i>	7754-44	tetramethrin, d-phenothrin	Harmful if swallowed, absorbed through the skin, or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Do not use in commercial areas where food is handled, stored, or served. The contents of this product are under pressure. Do not store near heat, sparks or open flame. Contains petroleum distillates.

Delta Dust Insecticide	432-772	deltamethrin	May be harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. In living areas, make applications in such a manner as to avoid depositions on exposed surfaces or introducing the material into the air. Do not allow food, utensils, or processing surfaces to become contaminated.
Demand G Insecticide	100-1240	lambda-cyhalothrin	This product causes moderate eye irritation. Avoid contact with eyes, or clothing.
EcoEXEMPT G Granular Insecticide from Envincio/Prentiss LLC	None - 25(b)	eugenol (clove oil), thyme oil (other: wintergreen oil, corn cob)	Avoid contact with eyes.
Essentria IC-3 Insecticide Concentrate from Envincio/Prentiss LLC	None - 25(b)	rosemary oil, geraniol, peppermint oil (Other: oil of wintergreen, white mineral oil, vanillin, polyglyceryl oleate)	May cause eye and skin irritation. Avoid contact with eyes, skin and clothing. Protective eyewear and chemical resistant gloves are recommended. Do not use or store this product near heat or open flame. When diluting with water, prepare only the amount needed for immediate use, and maintain agitation during use. Do not store spray solution overnight. When used in confined spaces, prolonged exposure to the fragrance may be objectionable to some individuals.
EcoPCO WP-X Wettable Powder Insecticide	67425-25-655	pyrethrins, 2-phenylethyl proppionate, oil of thyme	Harmful if swallowed or inhaled. This product causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes, or clothing. Carefully open the container by holding it near its base, avoid squeezing the container as this may cause contents to puff out. In food handling areas, only crack, crevice, and spot treatments are allowed. Exposed food should be covered or removed.
Gourmet Liquid Ant Bait	73766-2	disodium octaborate tetrahydrate	Applicators and other handlers must wear chemical resistant or waterproof gloves. Keep out of reach of children. Do not contaminate food.
Combat Liquid Ant Bait	73766-2-64240		
Revenge Pre-filled Liquid Ant Baits	73766-2-4		
Grant's Kills Ants Ant Control	1663-33	hydramethylnon	Keep out of reach of children, even after application.
Amdro Kills Ants Ant Killing Bait	1663-33-73342		

<i>InTice Thiquid Ant Bait</i>	73079-7	sodium tetraborate decahydrate	Harmful if swallowed or absorbed through the skin. In food handling areas, only crack and crevice treatments are allowed. Any product remaining outside of cracks and crevices must be cleaned up and removed.
<i>Maxforce FC Ant Killer Bait Gel Maxforce FC Professional Insect Control Ant Killer Bait Gel</i>	432-1264	fipronil	May be harmful if swallowed. Avoid contact with skin and clothing. Keep exposed gel away from open foods and food contact surfaces. Do not use this product in or on electrical equipment where a possibility of shock hazard exists.
<i>Maxforce FC Professional Insect Control Roach Killer Bait Gel Maxforce FC Select Professional Insect Control Roach Killer Bait Gel</i>	432-1259	fipronil	Harmful if absorbed through skin. This product causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Do not use this product in or on electrical equipment where a possibility of shock hazard exists. In food handling areas, only crack and crevice treatments are allowed. Do not treat food preparation surfaces.
<i>Maxforce Professional Insect Control Roach Killer Bait Gel</i>	432-1254	hydramethylnon	Harmful if swallowed or absorbed through skin. This product causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not apply bait to areas where food, utensils, or handling surfaces may become contaminated.
<i>MotherEarth D Pest Control Dust</i>	499-509	diatomaceous earth (amorphous silica)	This product causes moderate eye irritation. Avoid contact with eyes or clothing. Use adequate ventilation and avoid breathing dust. For prolonged exposure to dust, use a suitable dust mask approved by NIOSH. In living areas, make applications in such a manner as to avoid deposits on exposed surfaces or introducing the material into the air. In food handling areas, only crack, crevice, and spot treatments are allowed.
<i>MotherEarth Granular Scatter Bait</i>	499-515	boric acid	Harmful if absorbed through skin. This product causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Applicators and handlers must wear chemical-resistant or waterproof gloves. Avoid contamination of food.
<i>MotherEarth Wasp & Hornet Jet Spray</i>	499-519	d-limonene	Harmful if swallowed, inhaled, or if absorbed through the skin. Avoid breathing vapor. Avoid contact with skin, eyes, or clothing. This product is flammable, and its contents are under pressure. Keep away from heat, sparks and open flame. Do not spray on plastic, including vinyl, or directly into any electronic equipment. May cause staining of asphalt and shingles. For outdoor use only. Do not contaminate food, utensils, or food handling surfaces. The best time of day to treat nests is in the evening or early morning. Stand 6-15 away from elevated targets, not directly underneath.

Optigard Ant Gel Bait	100-1260	thiamethoxam	Do not treat food preparation surfaces. In food handling areas, only crack and crevice treatments are allowed.
Orange Guard	61887-1	d-limonene	Avoid contact with eyes or clothing. This product causes moderate eye irritation. When using the product indoors, wait three minutes after spraying before wiping off any excess fluid.
Share Corp Citracide Insecticide	61887-1-11547		
Demand CS Patrol	100-1066	lambda-cyhalothrin	This product may be harmful if absorbed through skin. It may also contain potential allergens. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist of vapor. Do not use this product in or on electrical equipment due to the possibility of shock hazard. Take extreme care to ensure the product is not introduced into the air. Avoid contamination of food and food processing surfaces. Spot treatments should not exceed 20% of the treated area. Individual spot treatments should not exceed 2 square feet.
Grenade ER Insecticide	100-1066-73		
Oxyfly Insecticide	100-1066-70585		
Speckoz Border Insecticide	100-1066-72113		
Phantom Termiticide-Insecticide	241-392	chlorfenapyr	Harmful if swallowed, inhaled or absorbed through skin. This product causes moderate eye irritation. DO NOT get in eyes, on skin, or on clothing. All handlers must wear chemical resistant gloves. For termite uses, eye protection and a mask may be needed; see the label for specific instructions. Do not apply this product around electrical equipment due to the possibility of shock hazard. Do not apply into heating and air conditioning vents. Do not treat classrooms while in use. Do not contaminate food, utensils, or handling surfaces.
Raid Wasp & Hornet Killer 33	4822-553	cypermethrin, prallethrin	Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Keep the product away from fire, sparks and heated surfaces. Do not expose the container to temperatures above 130° F. The best time of day to treat the nests of flying insects is in the evening or early morning. Wait at least 24 hours before removing the nest. Do not contaminate food or utensils.
W H Y Spray for Wasp, Hornet, & Yellow jacket Nests from Sterling International	None - 25(b)	lemmongrass oil, clove oil (eugenol), rosemary oil, geranium oil	Avoid contact with eyes and skin. Contents under pressure. Do not use or store near heat or open flame. When spraying nests, spray the opening first, and stand a safe distance from the nest.
Safer Brand Wasp and Hornet Killer	36488-47	d-limonene, pyrethrins, potassium salts of fatty acids	Avoid contact with skin or clothing. Contents under pressure. Do not use near heat or open flame. Do not apply this product to conduits, motor housings, junction and switch boxes, electrical equipment, or any surface that may be damaged by water. When used indoors, leave the room after spraying and ventilate upon return.
Safer Brand Flying Insect Killer			

<p>Talstar Professional Insecticide</p> <p>Ortho Max Pro</p> <p>Promate Bifenthrin Termiticide/Insecticide</p> <p>Lesco CrossCheck Plus Multi-Insecticide</p> <p>Speckoz Bifenthrin Termiticide/Insecticide</p>	<p>279-3206</p> <p>279-3206-5905</p> <p>279-3206-10404</p> <p>279-3206-72113</p>	<p>bifenthrin</p>	<p>Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. All handlers must wear chemical resistant gloves when mixing/loading, and perhaps, waterproof gloves when applying. See the label. When working in a non-ventilated space, a respirator and protective eyewear are required. Do not apply to any electrical equipment because of possible shock hazard. Do not allow spray to contact food, utensils, or handling surfaces.</p>
<p>Temprid SC Insecticide</p>	<p>432-1483</p>	<p>imidacloprid, beta-cyfluthrin</p>	<p>Harmful if swallowed or absorbed through skin. This product causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Gloves are required. Do not apply to furniture or upholstery where prolonged contact with humans will occur. Do not apply in food handling areas. Do not apply more than 5 gallons of diluted product indoors per applicator per day. When treating overhead areas, wear safety glasses, goggles, or face shield and a dust/mist respirator.</p>
<p>Termidor SC</p>	<p>7969-210</p>	<p>fipronil</p>	<p>Harmful if swallowed, absorbed through skin or inhaled. Do not get in eyes, on skin or on clothing. Do not breathe spray mist. All handlers must wear chemical-resistant gloves. When working in an unventilated space, protective eyewear and a respirator are required. Do not apply indoors except for wall voids.</p>
<p>Terro Ant Killer II Liquid Ant Baits/Killer,</p> <p>Terro Outdoor Liquid Ant Bait Stakes,</p> <p>Terro Outdoor Liquid Ant Baits Pre-Filled RTU</p> <p>Terro-PCO Liquid Ant Bait</p>	<p>149-8</p> <p>149-8-64405</p>	<p>sodium tetraborate decahydrate</p>	<p>Do not use in food handling areas.</p>

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Rodenticides

Product Name	EPA Reg. No.	Active Ingredient(s)	Read the label, use products only for labeled uses, and be aware of the following:
<i>Generation Mini Blocks</i> <i>Hombre Mini Blocks</i>	7173-218	difethialone	Harmful if swallowed or absorbed through skin. This product causes moderate eye irritation. Avoid contact with eyes, skin or clothing. People who handle the product and/or rodent carcasses must wear waterproof gloves. Outdoors, a tamper-resistant bait station is required if children, non-target mammals, or birds may access the bait. Even so, this bait can linger in poisoned rodents and accumulate in predator species. Be aware of a significant risk to wildlife and pets.

ⁱ Oregon Revised Statutes (ORS) 634.700 – 634.750

ⁱⁱ ORS 634.705, Section 5: A governing body shall adopt a list of low-impact pesticides for use with the integrated pest management plan. The governing body may include any product on the list except products that: (a) contain a pesticide product or active ingredient that has the signal words “warning” or “danger” on the label; (b) contain a pesticide product classified as a human carcinogen or probable human carcinogen under the United States Environmental Protection Agency 1986 Guidelines; or (c) contain a pesticide product classified as carcinogenic to humans or likely to be carcinogenic to humans under the United States Environmental Protection Agency 2003 Draft Final Guidelines for Carcinogen Risk Assessment [2009 c.501 §3]

ⁱⁱⁱ Pesticide products must be registered for sale and/or distribution in the state of Oregon each year. Current product registration is verified semi-annually using this search tool from the Oregon Department of Agriculture: http://oda.state.or.us/dbs/pest_productsL2K/search.lasso.