

## Horticultural Oil Sprays

### How do oil sprays work?

Oil sprays work by smothering the insects and mites they come in contact with, preventing several disease-causing pests from making a home out of favored plants like roses, hydrangeas, phlox, and zinnias. When oil is mixed with other ingredients it can also kill fungal diseases.

### Basic Oil Spray

<p><b>Step 1</b> Make the undiluted oil mixture</p> <p>1 Cup of vegetable oil (Safflower, corn, soybean or GMO free canola)</p> <p>1 Tablespoon biodegradable dishwashing liquid Place excess in a jar or squeezable bottle in the fridge for later use.</p>	<p><b>Step 2</b> 1 Tablespoon oil mixture or 1 Teaspoon for delicate plants</p> <p>2 Cups of water</p> <p>Place in a spray bottle. Because oil &amp; water don't mix well, shake the spray bottle often while applying. Repeat treatment in 7-10 days</p>
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### Garlic Oil Spray

<p><b>Step 1</b> 3 Ounces of minced garlic 2 teaspoons of mineral oil Soak the garlic in the mineral oil for a least 24 hours...</p> <p>Mix in a glass jar _ Ounce of dishwashing liquid 1 Pint of water garlic and mineral oil mix</p>	<p><b>Step 2</b> You can use the glass jar to store the excess solution.</p> <p><b>Plant Application Use Only:</b></p> <p>1-2 Tablespoons of concentrated garlic mix 1 Pint of water 1 Spray bottle</p>
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## Pest Control Spray You can make in your kitchen!

### Non-Toxic Solutions Without Chemical Pollution

Finally you can make your own insect-killing sprays and repellents. The best part is most of the ingredients come straight out of your kitchen cupboard or medicine chest. These sprays are just as effective and a lot less toxic for your health and the environment than commercial products!

### Tools you need to begin.

Spray bottles  
Glass pots & Glass Jars  
Biodegradable dishwashing liquid  
Specific ingredients for your spray

### Always remember....

1. When using a spray, remember it can kill beneficial bugs as well as pests, so spray only when you are sure the pests are present.
2. With any spray to test first. You can spray a couple of leaves then check the leaves in a day or two for burning. If there isn't any burning then proceed to spray the plant.
3. Share the recipes with friend and family

## Insect-killing Sprays

### **Basic Soap Spray**

2 Tablespoons biodegradable dishwashing liquid	*Most effective on soft-bodied insects; mites, aphids, whiteflies, thrips, * Soap penetrates the cell membrane and causes the insect to dry out *Very little residue
1 Gallon of warm water	
Mix and use as a spray. Repeat as necessary.	

### **Lovely Lemon Spray**

Peels of 2 large or 4 small lemons 1 Quart of water	*Limonene, found in the peels is the effective killing  *Also good as a flea shampoo, however, just like people, pets can be allergic. Make sure you test before using directly on the skin. Any signs you can just wash it off right away.
Boil the lemon peels for 10 minutes. Cool. Take out the lemon peels and put the solution in a spray bottle.	

### **Sticky Flour Spray**

2 to 4 Tablespoons of wheat or potato flour	This is an old recipe. The flour dust turns into a sticky substance that can hold a pest like a sticky trap. Or the insect eats it, and the flour affects their digestive tracts.
_ Teaspoon of biodegradable dishwashing liquid	
1 Quart of warm water to dissolve the flour so it can pass through the sprayer.	



## Insect Repellents

### **All-purpose Garlic Spray**

6 Cloves of garlic	Put the first 4 ingredients into a blender, add some of the water, and blend until smooth. Pour mixture into a jar and add the rest of the water. Let steep for 24 hours (or a couple of hours if you need to it just will not be a strong.) Strain, and then pour the liquid into a spray bottle. Treat plants. Keep extra spray in refrigerator for up to 2 weeks. Treat again if necessary.
_ onion	
1 Tablespoon cayenne pepper	
1 Tablespoon biodegradable dishwashing liquid	
1 Quart of water	

### **Hot Pepper Spray**

3-4 <i>Hot</i> peppers chopped or 2-4 Tsp. Tabasco sauce or hot pepper powder	Drop hot peppers into a pot of boiling water. Remove the pot from the stove and let steep for 24 Hours (same as garlic spray) Remove the peppers after steeping and add cold water to dilute the pepper solution. Add the soap to help the spray stick to the plant. Remember check a small spot first, before spray the whole plant.
1 Quart of boiling water	
1 Quart of cold water	
2 Drops of biodegradable dishwashing liquid (optional)	

### **Tomato Leaf Spray**

2 Cups of chopped tomato leaves	Combine the tomato leaves and water in a saucepan. Heat to simmering, then turn off the heat. Let mixture steep until cool. Strain the leaves from the water and add the soap to the water. The solution should have a "tomatoey" smell. Use in a spray bottle, and apply as needed.
1 Quart of water	
_ Teaspoon of biodegradable dishwashing liquid	

**Some common foods and plants repel many types of insects;  
some are all purpose, others are insect-specific.**

	Aphids, fleas, cabbage pests
Catnip Remember Cats love this plant so your garden may be the favorite stop for the neighborhood cats!	Ants, Colorado potato beetles, darkling beetles, flea beetles, Japanese beetles, squash bugs, weevils.
Garlic	Great for many insects and animals. Plant edible garlic between your vegetable rows or next to roses. Or dust garlic powder directly on the plant or make a spray....
Banana Peels	
Citrus Rinds	
Lemongrass	
Peppermint Tea	
Wood Ashes	