Overview

Spring and summer are excellent times to kill weeds. However, not all weed killers are the same. Knowing the different types of weeds and weed killers is important to avoid causing damage to desirable vegetation.

Weeds deprive desired plants and grasses of water, light, soil and other nutrients. They can aggravate allergies and harbor insects and disease. They are unsightly and can scratch and irritate skin.

Types of Weed Killers

Sterilants
• Kill all vegetation and prevent most plants from growing in the soil for at least one growing season (6 to 9 months)
• Some plants with deep, extensive roots like trees and bushes, may survive soil sterilants

Non-Sterilants
• Can be selective or non-selective
• Areas treated with non-sterilants may be replanted

Systemic Weed Killers
• Absorbed by the plant, usually through the leaves, to kill the plant to the roots

Contact Weed Killers
• Only kill the part of the plant with which they come in contact

Selective Weed Killers
• Attack plants with branching veins in the leaf (e.g., dandelions)
• Kill desirable plants like flowers if they have branching veins
• Attack only broadleaf weeds
• Do not harm plants with parallel veins in the leaf such as grass

Non-Selective Weed Killers
• Do not differentiate between plants – will kill all living plants or grasses
Product Offerings

**Wither LVP**
- Ready to use
- Non-selective
- Soil sterilant
- Penetrates quickly
- Quick knockdown
- Prevents plant regrowth
- Available in bulk sizes
- Low VOC compliant formula

**Doom**
- Ready-to-use aerosol
- Non-selective spot weed killer
- Rapid top kill, systemic herbicide
- Special valve allows product to be sprayed upside down

**Zep® Professional Concentrated Weed Killer and Soil Sterilant**
- Fast-acting, non-selective liquid weed and brush killer
- Eliminates all vegetation including Bermuda grass and poison ivy
- Dilutes for economy
- 4-month sterilant action

DR9000 (16.5 OZ. Aerosol)
DR9110 04 (1 Gal.)
DR9110 05 (5 Gal.)
DR9110 20 (20 Gal.)
DR9110 55 (55 Gal.)

42334 (11 OZ.)

1143196 (1 Gal.)
1143297 (5 Gal.)
To kill unwanted plants, grasses, and weeds:

Selective weed killers attack only broadleaf plants, which covers most weeds. Selective weed killers will not harm plants with parallel veins in the leaf (like grass), but will attack plants with branching veins in the leaf (like dandelions). A selective weed killer will kill desirable plants (like flowers) if they have branching veins, so be careful around these plants.

Sterilants will kill all plants and usually prevent most plants from growing in the soil for at least one growing season (6 to 9 months, or spring until fall for most of the country). Some plants with deep, extensive roots (like trees and bushes) may survive even soil sterilants. Results will vary with individual plants.

Systemic weed killers are absorbed by the plant (usually through the leaves) and are then transported through the plant, to kill the entire plant down to the roots.

RTU stands for “Ready To Use”, and means the product should not be diluted. All Lawson dilutable grounds products are water-based, so they should only be diluted with water.

### Grounds Chart

<table>
<thead>
<tr>
<th>Product</th>
<th>Sterilant</th>
<th>Systemic</th>
<th>Selective</th>
<th>Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wither LVP Liquid Soil Sterilant</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>RTU</td>
</tr>
<tr>
<td>Doom Aerosol Non-Selective Weed Killer and Sterilant</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>RTU</td>
</tr>
<tr>
<td>Zep® Professional Concentrated Weed Killer and Soil Sterilant</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>1:3 to 1:9</td>
</tr>
</tbody>
</table>

### Application Tips

- Always follow label instructions
- Avoid use on windy days – wind drift may cause damage of landscape and garden plants
- Do not apply on hot days (over 85°F) or during periods when weeds are stressed by heat or drought
- It is best to have adequate soil moisture, but no rain for 24 hours after application
- Do not mow turf for a few days before and after application
- Consider spot-treating weeds rather than broadcasting weed killer over the entire area
- Refer to the label for information about any potential hazards when using weed control products on lawns over tree and shrub roots