Plants, especially turfgrass, are constantly under siege by environmental stresses and other factors which impede their development and growth. Similar to other organisms, plants have built-in defense systems to combat this stress. Certain compounds have been shown to “turn on” or initiate these defense mechanisms artificially in anticipation of future stress. This initiation of plant defenses not only bolsters the plant against future stress events, but it also triggers a series of beneficial events within the plant. This triggering effect has been demonstrated to increase root development and increase yields in agronomic crops. This process is called SAR (Systemic Acquired Resistance).

Resist is a high amino acid content fertilizer with compounds specifically selected for their ability to initiate SAR responses in plants. The specific source of amino acids in Resist is fungal derived and contains compounds called oligosaccharides. These oligosaccharides are the specific triggering mechanism which initiates the SAR response in plants. The amino acid rich active ingredients in Resist also serve as a potent food source for native soil microbes. This stimulating effect on soil microbes has direct positive impact on root zone productivity and root development.

SAR triggered plants tend to demonstrate increased rooting and resistance to stress. Applications of Resist have been demonstrated to ameliorate off-color turf and assist in the prevention of turf decline. Stress resistance is increased and turf quality is improved.

**BENEFITS FOR YOUR TURF:**

**AMINO ACIDS:**
- Increased protein and chlorophyll production
- Increased carbohydrate reserves
- Food source for microbes

**OLIGOSACCHARIDES:**
- Triggers SAR (Systemic Acquired Resistance)
- Increased stress resistance
- Stimulates root development and yields

**POTASSIUM ACETATE:**
- Maximum foliar absorption (up to 5 times the foliar absorption over other forms of potassium)

**RESIST 2-0-2 PLANT DEFENSE INITIATOR**

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen (N)</td>
<td>2.0%</td>
</tr>
<tr>
<td>2.0% Urea nitrogen</td>
<td></td>
</tr>
<tr>
<td>Soluble potash (K2O)</td>
<td>2.0%</td>
</tr>
</tbody>
</table>

_Derived from:_ Urea, potassium acetate, autolyzed amino acids derived from Saccharomyces cerevisiae.

**SAR Triggering results in stress resistance and other ancillary benefits such as increased root development.**