

# Chemurgic's OR-100 Super Spreader



**Water Reducing Adjuvant**

**PRINCIPAL FUNCTIONING AGENTS:**

Siloxane Polyalkyleneoxide Copolymer and Polyalkyleneoxide..... 100%

**TOTAL**..... 100%

All ingredients are exempt from the requirements of a tolerance as specified in 40 CFR§180.910

CA Reg. No. 1212-50010-AA

**KEEP OUT OF REACH OF CHILDREN  
WARNING**



**HAZARD STATEMENTS**

Harmful if inhaled.  
Causes eye irritation.

*See Inside Booklet for Additional Precautionary Statements  
and Complete Directions for Use.*

**Net Contents: 1 gal (3.78 liters)**

Manufactured for  
**CHEMURGIC**  
Chemurgic Agricultural Chemicals, Inc.  
P.O. Box 2106 • Turlock, CA 95381

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Avoid breathing mist, vapors or spray. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or tobacco. Use only outdoors or in a well-ventilated area.

Not for aerosol use.

#### FIRST AID

<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>▪ Rinse cautiously with water for several minutes.</li><li>▪ Remove contact lenses, if present and easy to do. Continue rinsing.</li><li>▪ If eye irritation persists, get medical attention.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"><li>▪ Take off contaminated clothing.</li><li>▪ Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>▪ Remove person to fresh air and keep comfortable for breathing.</li><li>▪ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>▪ Call a poison control center or doctor if you feel unwell.</li></ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>▪ Call a poison control center or doctor immediately for treatment advice.</li><li>▪ Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>▪ Do not give anything by mouth to an unconscious person.</li></ul>

*If an adverse reaction occurs after exposure, promptly start the recommended procedures above.*

## **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear longsleeved shirt and long pants, impermeable or chemical resistant gloves, protective eyewear and shoes plus socks. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## **USER SAFETY RECOMMENDATIONS**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## PRODUCT INFORMATION

*Chemurgic's OR-100 Super Spreader* is a non-ionic organosilicone wetting agent useful in the application of fungicides, insecticides, plant nutritionals, microbial products, fertilizers and plant growth regulators in horticultural and arable crops. This product lowers the surface tension of spray solutions well below commonly used surfactants. Lower surface tension will result in more effective wetting and more uniform coverage on foliar surfaces, oftentimes resulting in a reduction in water requirements.

*Chemurgic's OR-100 Super Spreader* readily disperses in spray solutions and is especially suited to situations where coverage is critical, and is particularly useful in low-volume spraying and aerial applications where water coverage is a limiting factor.

**IMPORTANT:** Before spraying any previously untried mixtures with *Chemurgic's OR-100 Super Spreader*, always test the mixture before-hand for crop phytotoxicity.

**DIRECTIONS FOR USE:** *Chemurgic's OR-100 Super Spreader* will give best results in low-volume spraying—**around 50% or less of the normal volume of water when sprayed to run-off.** High water volumes with *Chemurgic's OR-100 Super Spreader* will result in excessive run-off of spray liquid and may lead to poor efficiency. Adjust either the rates of *Chemurgic's OR-100 Super Spreader* or the water volumes to obtain thorough coverage without excessive run-off.

**MIXING INSTRUCTIONS:** Prior to any pesticide application, all spray mixing and application equipment must be thoroughly cleaned. Carefully observe all cleaning directions on the pesticide label.

1. Fill spray tank half full with water and begin agitation.
2. If foaming is expected, add a silicone-based antifoam to the tank before adding the pesticides.
3. Add pesticides/foliar nutrients etc. as directed on their respective labels. Maintain agitation.
4. Continue filling with water until the tank is 90% full.
5. Add the required amount of *Chemurgic's OR-100 Super Spreader* and mix thoroughly. Add the remaining water to 100% full.
6. For optimum results, spray mixes should be applied within 24 hours after mixing.

**Recommendations:** Always follow the pesticide manufacturer's label for use of nonionic surfactants; however, where no recommendation is given, and addition of a nonionic surfactant is permitted, use *Chemurgic's OR-100 Super Spreader* between 0.025%-0.1% (3.2-13 fl. oz. per 100 gal.) for ground applications and between 0.05% - 0.15% (12-19 oz. per 100 gal.) for aerial sprays.

In many applications, the water rate may be reduced from the typical "Spray to Run-off" volume by up to 70%. Therefore, water rates should be adjusted accordingly to avoid excessive run-off.

Since all equipment is set up differently, check the coverage on a small area and adjust volume to achieve the best result for your equipment before applying to large areas.

#### **NOTES:**

1. Optimum spreading and wetting from *Chemurgic's OR-100 Super Spreader* will occur between pH 5 and pH 9. Spray mixtures above and below these figures should be sprayed immediately, or the solution adjusted to within the correct range to avoid breakdown of *Chemurgic's OR-100 Super Spreader*.
2. Not all formulations of chemicals behave the same with *Chemurgic's OR-100 Super Spreader*. It is important to make a small amount, representative of the spray mixture, and apply it to a small area to ensure the product is providing adequate coverage. Coverage may be adjusted by either increasing the *Chemurgic's OR-100 Super Spreader* rate (See recommended range above), or modifying the water volume as needed.
3. *Chemurgic's OR-100 Super Spreader* has demonstrated good plant safety. However not all plants and spray mixtures have been tested. Treatments that have a potential for phytotoxicity could be aggravated by *Chemurgic's OR-100 Super Spreader*. Before treating large areas, a small area should be tested and the results observed.

**COMPATIBILITY:** *Chemurgic's OR-100 Super Spreader* is compatible with most commonly used nutritionals, herbicides, fungicides, insecticides and plant-growth regulators. *Chemurgic's OR-100 Super Spreader* will break down when mixed with highly acidic (below pH 4) or highly alkaline (above pH 9) chemicals, which may result in poor wetting and spray coverage.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

**STORAGE:** Keep in original container. Store in a cool, dry place. Protect from excessive heat. Do not store below 4 °C as product will freeze.

**PRODUCT DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.

## CONDITIONS OF SALE AND WARRANTY

*Chemurgic Agricultural Chemicals, Inc.* warrants that this product conforms to the chemical description on the label and is reasonably suited for the purposes stated when used as recommended under normal conditions.

Unintended consequences such as crop damage or poor performance may result from factors including, but not limited to, method of application, timing, crop and soil condition, weather, and other materials present, all of which are beyond the control of *Chemurgic Agricultural Chemicals, Inc.* and Seller.

*Chemurgic Agricultural Chemicals, Inc.* neither makes, nor authorizes any agent or representative to make any other warranties, expressed or implied, including fitness or merchantability.

Buyer and user acknowledge and assume all risks and liability resulting from the handling, storage and use of this material.

In no case shall *Chemurgic Agricultural Chemicals, Inc.* or the Seller be liable for consequential, special, indirect, or incidental damages or losses resulting from the handling or use of this product.

The foregoing is a condition of sale by *Chemurgic Agricultural Chemicals, Inc.* and is accepted as such by the Buyer.

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PULL HERE TO OPEN AND PRESS TO RESEAL ▲

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