



**ADJUVANT FOR PESTICIDE AND NUTRITIONAL SPRAYS**

**ACTIVE INGREDIENTS:**

Proprietary Blend of Polyethoxylated alkyl amines (C<sub>8</sub>-C<sub>18</sub>), alkyl polyoxyethylene glycols, and organic acids ..... 90.00%

CONSTITUENTS INEFFECTIVE AS ADJUVANTS ..... 10.00%

TOTAL ..... 100.00%

All ingredients are exempt from the requirements of a tolerance as specified in CFR 40, 180.

Patent No. 6,831,038

**KEEP OUT OF REACH OF CHILDREN**

**DANGER – PELIGRO**

Si usted no entiende la etiqueta, busque a alguien que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

- Harmful if swallowed
- May be harmful in contact with skin
- Causes serious eye damage
- Causes mild skin irritation
- May be harmful if inhaled



- NET CONTENTS:  1 Gallon (3.785 Liters)
- 2.5 Gallons (9.46 Liters)
- 30 Gallons (113.55 Liters)
- 55 Gallons (208.18 Liters)
- 250 Gallons (946.25 Liters)

SN 033115/0915G

**MANUFACTURED FOR**

**HELENA CHEMICAL COMPANY**  
 225 SCHILLING BOULEVARD, SUITE 300  
 COLLIERVILLE, TN 38017  
 901-761-0050

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER**

**BEFORE USING THIS PRODUCT, READ ALL PRECAUTIONS, DIRECTIONS FOR USE, CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES.**

Corrosive. Harmful if swallowed. May be harmful in contact with skin. Causes serious eye damage. Causes mild skin irritation. May be harmful if inhaled. Keep product locked up and out of the reach of children. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or smoking tobacco. Remove and wash contaminated clothing before reuse. Do not take internally. Avoid contact with or inhalation of spray application mist if present. Do not apply this product in such a manner as to directly expose workers or other persons. If product is being mixed with pesticides and/or spray adjuvants, follow all precautionary statements on the accompanying product(s) labeling. Not for human or animal consumption.

**Personal Protective Equipment (PPE):** Wear protective eyewear (goggles or face shield), chemical-resistant gloves, long-sleeved shirt and long pants, and shoes plus socks when using this product. Take off any contaminated clothing and wash before reuse.

**FIRST AID**

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**IF INHALED:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

	<ul style="list-style-type: none"> <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 15-20 minutes.</li> <li>• Call a poison control center or doctor for further treatment advice.</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>• Have a person sip a glass of water if able to swallow.</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 or convulsing person.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.  
**PESTICIDE STORAGE:** Store in original container only. Keep container tightly closed. Do not allow water to be introduced into the contents of this container. Do not store near heat or open flame. Do not store with oxidizing agents.  
**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water sources by run off from cleaning of equipment, disposal of equipment washwater or spray waste.  
**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, STAY OUT OF SMOKE.

**GENERAL INFORMATION**

**OPTIMA®** is a specialized formulation of surfactants and buffering agents which improves application while buffering the spray mix pH. **OPTIMA®** can positively affect both pesticide spray application and pesticide efficacy. **OPTIMA®** is designed primarily to be applied with herbicides which utilize glyphosate as the active ingredient. \*However, it is also suitable and effective for most pesticides and nutritional products which can be used with wetter/spreader type adjuvants. Optimum application and consequent effects can be influenced by many factors. Therefore, it is recommended that careful observation of the spray deposit be made and the adjuvant rate be adjusted accordingly to ensure thorough coverage without undue runoff.

**DIRECTIONS FOR USE**

**FOR USE WITH HERBICIDES REGISTERED FOR: AGRICULTURAL, FORESTRY, INDUSTRIAL, MUNICIPAL, ORNAMENTAL, RIGHTS-OF-WAY, TURF, NON-CROPLAND, AND AQUATICS\*.**

The addition of an adjuvant to some pesticides or pesticide tank mix combinations may cause phytotoxicity to the foliage and/or fruit of susceptible crops. Prior to the addition of **OPTIMA®** to spray tank mixes, the user or application advisor must have experience with the combination or must have conducted a phytotoxicity trial.

**OPTIMA®** may be applied by ground, cda, or aerial spray equipment. For most applications, use enough **OPTIMA®** to allow for uniform wetting and deposition of the spray onto leaf surfaces without undue runoff.

**Ground, Aerial, CDA:** Use 2-8 pints per 100 gallons of spray. For use with glyphosate or sulfosate type herbicides, use a minimum of 4 pints per 100 gallons.

**Aquatics\*:** Use 2-4 pints per 100 gallons.

**Buffering:** to obtain an initial buffering effect, use a minimum of 3 pints per 100 gallons of spray. Rates may be adjusted as water conditions vary. The use of a pH measuring device is recommended to determine a suitable **OPTIMA®** rate.

Do not add adjuvant at a level that would exceed 5% vv of the finished spray volume.

**NOTE:** The above use recommendations are considered to be adequate for most uses. Some herbicides, however, may require higher or lower rates for optimum effect. Follow the pesticide(s) label(s) directions when this occurs.

\*Not for Use in California

**MIXING**

Prior to any pesticide application all spray mixing and application equipment must be thoroughly cleaned. Carefully observe all cleaning directions on the pesticide(s) label(s).

1. Fill spray tank one-half full with water and begin agitation.
2. Add pesticides and/or fertilizers as directed by label or in the following sequence:
  - A. Micronutrients and fertilizers
  - B. Dry flowables and water dispersible granules

**Disclaimer:** Always refer to the label on the product before using Helena or any other product.

- C. Flowables
  - D. Water soluble pesticides
  - E. Emulsifiable concentrates
3. Continue agitation and complete filling of the spray tank.
  4. Add **OPTIMA®** last and continues agitation.

Do not mix **OPTIMA®** with undiluted pesticides.

---

**CONDITIONS OF SALE-LIMITED WARRANTY  
AND LIMITATIONS OF LIABILITY AND REMEDIES**

---

Read the Conditions of Sale-Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and must be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

© Copyright Helena Holding Company, 2015

**OPTIMA®** is a registered trademark of Helena Holding Company.