



# ChemSurf 90

TM

Surfactant - Humectant

Adjuvant

### PRINCIPAL FUNCTIONING AGENTS

Proprietary blend of alkyl aryl polyoxyethylene glycol,  
sodium alkyl benzenesulfonate,  
poly glycerol fatty acid ester,  
sodium alkyl sulfonate ester, free fatty acids . . . . . 90%  
Constituents Ineffective as Spray Adjuvants . . . . . 10%  
Total . . . . . 100%

Components exempt from tolerance under 40CFR 180  
Surfactant Content 80%

### GENERAL INFORMATION

**ChemSurf 90** is a premium general purpose surfactant and humectant for use with insecticides, fungicides, herbicides, acaricides, defoliant, dessiccants, PGR's and nutritional. The surface-active agents in **ChemSurf 90** are designed to improve wetting, spreading and humectancy of agricultural sprays on leaf, stem or insect surfaces. **ChemSurf 90** contains a sticker that resists re-wetting of spray deposits by dew, irrigation or rain. It also contains a defoamer that helps suppress spray tank foaming. **ChemSurf 90** is suitable for use where the pesticide label recommends a non-ionic surfactant, spreader or wetter.

### DIRECTIONS FOR USE

**Ground, Air, CDA:** 0.5 to 4 pints per 100 gallons of spray.  
Use enough **ChemSurf 90** to achieve good wetting, spreading and surface coverage without excessive run-off.

The above recommendations are adequate for most uses. However, some pesticides may require different adjuvant rates. When this occurs, follow the pesticide label directions. Environmental conditions, equipment condition, crop health, pest infestation levels, and the accurate operation of spray machinery can influence the effects of the pesticide and the spray application itself. Therefore, it is recommended that adjuvant concentrations be adjusted based on careful observation of spray deposits.

### MIXING INSTRUCTIONS

Fill spray tank one-half full and start agitation. Always follow pesticide label directions for proper mixing order, or if no specific mixing order is indicated on the pesticide label use the following sequence:

1. Dry flowables, water dispersible granules
2. Wettable powders
3. Flowables
4. Aqueous solutions
5. Emulsifiable concentrates
6. Add **ChemSurf 90** last and continue agitation

### STORAGE AND DISPOSAL

**Storage:** Store in a cool, dry place. Store only in the original container. Do not store near feed or food.  
**Disposal:** Triple rinse container and offer for recycling/reconditioning or dispose of at an approved sanitary landfill. **DO NOT REUSE EMPTY CONTAINER.**

### PRECAUTIONARY STATEMENTS

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, and clothing. Avoid inhalation of spray mist. Wash thoroughly with soap and water after handling. Read and follow all precautionary statements on the accompanying pesticide label(s).

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**- STOP -**

**READ ENTIRE LABEL BEFORE USING**

### 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 the eye. Get medical attention.  
**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.  
**If Swallowed:** Call physician immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by physician. Do not give anything by mouth to an unconscious person. 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.

### CONDITIONS OF SALE AND WARRANTY

The Directions for Use of this product are based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of manufacturer or the Seller. All such risks shall be assumed by the Buyer. THE MANUFACTURER OR SELLER MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OF ANY OTHER EXPRESSED OR IMPLIED WARRANTY. IN NO CASE SHALL THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. The manufacturer and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of the manufacturer.

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