

# SILWET L-77 SURFACTANT

## ORGANOSILICONE SURFACTANT

Complete Directions for Use, Use Precautions and Requirements

<b>*ACTIVE INGREDIENTS:</b>	<b>(BY WEIGHT)</b>
Polyalkyleneoxide modified heptamethyltrisiloxane .....	99.50%
CONSTITUENTS INEFFECTIVE AS ADJUVANT .....	0.50%
TOTAL .....	100.00%

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

KEEP OUT OF REACH OF CHILDREN

### WARNING

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



CA Reg. No. 5905-50073-AA  
NET CONTENTS: 0.5 Gal. (1.89 Liter)

SN 033115

### MANUFACTURED FOR

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

### PRECAUTIONARY STATEMENT

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

### WARNING

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

May be harmful if swallowed. May be harmful in contact with skin. Causes serious eye irritation. 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

<b>IF IN EYES:</b>	<ul style="list-style-type: none"><li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</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 15-20 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>Move person to fresh air.</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 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 person sip a glass of water if able to swallow.</li><li>Do not induce vomiting unless told to by a poison control center or doctor.</li><li>Do not give anything to an unconscious or convulsing person.</li></ul>

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of emergency, call ChemTrec at 800-424-9300.

If contact is made with the spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the pesticide label. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. In addition, follow precautionary statements on accompanying pesticide(s) label(s).

#### STORAGE AND DISPOSAL

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

**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 dispersed of on site or at an approved waste disposal facility. Do not contaminate water sources by runoff from cleaning of equipment, disposal of equipment washwaters, or spray waste.

#### CONTAINER DISPOSAL:

**NON-REFILLABLE CONTAINER DISPOSAL:** Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading and add rinsate to spray tank. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at [www.acrecycle.org](http://www.acrecycle.org). Decontaminated containers may also be disposed of in a sanitary landfill. For help in chemical emergencies involving spill, leak, fire or exposure, call toll free 1-800-424-9300.

#### GENERAL INFORMATION

**SILWET L-77® SURFACTANT** is a 100% organosilicone product which has been proven to have effective and powerful wetting capabilities when used in aqueous spray mixes. Organosilicone surfactants are a distinctive class of nonionic wetting agents which have capacity to lower surface tension of aqueous mixes when used at lower rates than that of conventional organic nonionic surfactants. Therefore, for best results, it is recommended that a 100% organo-silicone be used only when specifically recommended by the pesticide manufacturer's label or after consulting your pesticide manufacturer or a locally recognized authority on the use of organosilicone based 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 adjuvant rate adjusted accordingly to ensure thorough coverage without undue runoff.

#### DIRECTIONS FOR USE

**SILWET® L-77 SURFACTANT** has been found to be effective in agricultural applications at .025 to 0.25% v/v concentration. Some applications may require lower or higher surfactant rates for optimum effect. Do not add adjuvant at a level that would exceed 5% of the finished spray volume. When this occurs, adjust rates to obtain thorough coverage without excessive runoff. Diminished performance will result if tank mix pH is excessively high (above 9) or low (below 5). Optimum performance of **SILWET L-77® SURFACTANT** will result between pH of 6 and 8. Prior to use of **SILWET L-77® SURFACTANT** in any agricultural application, the user, applicator or advisor must have experience or must have conducted a phytotoxicity trial on the crop to which the application is to be applied.

#### 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).

- To prevent or minimize foaming, fill tank to 2/3 to 3/4 full of water. If foaming is anticipated, the addition of an antifoaming agent should be added before pesticides, nutrients, or **SILWET L-77® SURFACTANT** is added.
- Add pesticides and/or fertilizers as directed by label or in the following sequence:
  - Micronutrients and fertilizers
  - Dry flowables and dispersible granules
  - Flowables
  - Water soluble pesticides
  - Emulsifiable concentrates
- Continue agitation.
- Add **SILWET L-77® SURFACTANT** and mix for 1 to 2 minutes with lower than normal agitation.
- Continue filling tank, maintaining minimal agitation.
- For optimum results, spray mixes containing **SILWET L-77® SURFACTANT** should be applied within 36 hours after mixing.

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

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

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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.

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