



## SILWET\* 408 SURFACTANT

### Organosilicone spreader, penetrant

to enhance the spreading and foliar deposition of herbicides, fungicides, insecticides, plant growth regulators and nutrients

#### Principal Functioning Agents:

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

**Total** .....100%  
Surfactant Content ..... ≥99%

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

CA Reg. No. 1051186- 50004- ML

**Net Contents: (0.25, 1 or 2.5) gallons**

#### Manufactured by

Momentive Performance Materials  
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### PRODUCT INFORMATION

**Silwet\* 408 surfactant** is a nonionic organosilicone wetting agent useful in the application of herbicides, fungicides, insecticides, microbial products, fertilizers, and plant growth regulators in horticultural and arable crops.

**Silwet\* 408 surfactant** 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, often times allowing for a reduction in water requirements.

### WARRANTY & EXCLUSION OF LIABILITY

Momentive Performance Materials warrants that this product conforms to the chemical description on the label and can be used as set forth in the directions for use on this label. This warranty IS IN LIEU OF ALL OTHER WARRANTIES, STATUTORY, EXPRESS OR IMPLIED, and INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

To the extent permitted by law, the liability of Momentive Performance Materials and its distributors for any loss, damage or injury of any kind arising from the use of this product, whether in contract or tort, strict liability or otherwise, whether direct, indirect, incidental, or consequential, shall be limited to the replacement of product or refund of the purchase price thereof.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS

**Classification:** ACUTE TOXICITY: inhalation - Category 4  
SERIOUS EYE DAMAGE/ EYE IRRITATION – Category 2A

#### GHS label elements



Hazard pictograms:

## KEEP OUT OF REACH OF CHILDREN WARNING

Signal Word: Hazard statements: H332 Harmful if inhaled  
H319 Causes serious eye irritation  
Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

Environmental Hazard:

**Attention: Not for aerosol use**

### FIRST AID

#### If in eyes:

- Rinse eyes cautiously with water for several minutes, occasionally lifting the eyelids.
- Check for and remove contact lenses if present and easy to do. Continue rinsing for at least 10 minutes.
- Get medical attention if irritation persists.

#### If on skin or clothing:

- Flush contaminated skin with plenty of water.
- Remove contaminated clothing and shoes.
- Get medical attention if symptoms occur.
- Wash clothing and shoes before reuse.

#### If inhaled:

- Remove person to fresh air and keep at rest in comfortable position for breathing.
- If person is not breathing or breathing is irregular, provide artificial respiration or oxygen by trained personnel.
- If victim feels unwell, contact a poison control center or physician.
- Get medical attention if adverse health effects persist or are severe.
- If unconscious, place victim in recovery position, maintain an open airway, and get medical attention immediately.

#### If swallowed:

- Wash out mouth with water.
- If exposed person is conscious, give small quantities of water to drink.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Get medical attention if adverse health effects persist or are severe.
- Do not give anything to an unconscious person.

### STORAGE & DISPOSAL

**Storage:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food, and drink. Keep container closed. Do not store below 32°F (0°C) as product will freeze.

**Disposal:** Dispose of contents and container in accordance with all local, regional, national and international regulations.



## PERSONAL PROTECTIVE EQUIPMENT

### USER SAFETY RECOMMENDATIONS

Applicators and other handlers must wear long-sleeved shirt and long pants, impermeable or chemical resistant gloves, protective eyewear, and shoes plus socks. Follow 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 must:

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Remove clothing immediately if pesticide gets inside. 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.

Wear eye or face protection

Use only outdoors or in a well-ventilated area

Avoid breathing vapor



### DIRECTIONS FOR USE:

Important – Before spraying any previously untried mixtures with **Silwet\* 408 surfactant** always test the mixture beforehand for crop phytotoxicity.

**Silwet\* 408 surfactant** will give best results in low volume spray applications – around 50% of the normal volume of water when sprayed to run-off.

High water volumes with **Silwet\* 408 surfactant** will result in excessive run-off of spray liquid and may lead to poor efficiency.

Adjust either the rates of **Silwet\* 408 surfactant** or the water volumes to obtain thorough coverage without excessive run-off.

#### Mixing:

Prior to any pesticide application, all spray mixing and application equipment must be thoroughly cleaned. Carefully observe all cleaning direction 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 and foliar nutrients 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 **Silwet\* 408 surfactant** 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 **Silwet\* 408 surfactant** between 0.025% - 0.1% (3.2 – 13 fl oz per 100 gallons) for ground sprays and between 0.05% - 0.15% (6.4 – 19 fl oz per 100 gallons) 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.

### Compatibility:

**Silwet\* 408 surfactant** is compatible with most commonly used nutritionals, herbicides, fungicides, insecticides, and plant growth regulators.

**Silwet\* 408 surfactant** 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.

### Notes:

1. Optimum spreading and wetting from **Silwet\* 408 surfactant** will occur between pH 4 and pH 9. Spray mixtures above and below these figures will promote rapid breakdown of the product. It is not recommended to use this product below pH 4. Spray mixtures above pH 9 should be sprayed immediately or adjust the solution to within the correct pH range to avoid the breakdown of the **Silwet\* 408 surfactant**.
2. Not all formulations of chemicals behave the same with **Silwet\* 408 surfactant**. It is important to make a small amount representative of the spray mixture and apply to a small area to ensure the product is providing adequate coverage. Coverage may be adjusted by either increasing the **Silwet\* 408 surfactant** rate (see recommended range above), or by modifying the water volume as needed.
3. **Silwet\* 408 surfactant** 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 **Silwet\* 408 spreader**. Before treating large areas, a small area should be tested and the results observed.

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