

# DES-X<sup>®</sup>

## INSECTICIDAL SOAP CONCENTRATE

AN INSECTICIDAL SOAP CONCENTRATE THAT KILLS ON CONTACT TO CONTROL INSECT AND MITE PESTS.

### INSECTICIDAL SOAP CONCENTRATE

#### ACTIVE INGREDIENT:

Potassium Salts of Fatty Acids .....	47.0%
Other Ingredients: .....	53.0%
<b>Total .....</b>	<b>100.0%</b>



## PRODUCT HIGHLIGHTS

### Features:

Effective against both adult and immature stages of the pest.

DES-X<sup>®</sup> is a contact insecticide/miticide that breaks down the cuticle and penetrates the body of the insect and or mite, causing rapid death.

Contains potassium salts of fatty acids (also known as "insecticidal soap") for effective control of various insect species.

Formulated to provide optimum spreading across leaf surfaces or insect cuticle.

Nonspecific, contact mode of action of DES-X makes a great choice for resistance management.

### Benefits:

DES-X can be used to knock down pest infestations prior to releasing beneficials. DES-X has no residual effects after the sprays have dried, making it compatible for use with biological control agents, beneficial insects, and beneficial predatory mites.



Always carefully read and follow label instructions.

1.800.250.5024



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## HOW IT WORKS

The insecticidal soap concentrate works by direct contact with target pests due to the specially selected fatty acids, which disrupt the cuticle (or outer layer) by breaking down protective waxes. DES-X then penetrates the body of the pest, causing degradation of cell membranes, which leads to leakage of cellular contents, ultimately killing the insect or mite pest.

## APPLICATION RATE

For field applications, apply a 2% dilution (2 gal of product/100 gal of water) at a rate of 75 to 200 gal/A using ground spray equipment.

For use as a deer repellent, apply a 2% dilution (2.5 oz product/gal water) at a minimum 10 gal spray solution/acre. For more information, see the Certis USA website for the appropriate FIFRA Section 2(ee) recommendation for your state.

See the label for specific rates and timing for target crops and pests.

## TIMING

For best results, begin treatment at first visible signs of infestation. Spray plants thoroughly with diluted product until just wet to ensure contact of the spray with the target pests. Do not spray to run-off. DES-X is a contact insecticide; the spray solution must contact the target pests to be effective. Ensure thorough spray coverage to reach all plant parts, including the undersides of leaves.

Repeat treatment every 1-2 weeks as needed to maintain control. Avoid more than three consecutive applications to avoid potential injury to the plant. Additional applications may be possible if previous experience with repeat applications of the product under the same conditions have not produced plant injury.

DES-X may be used on edible crops up to and including day of harvest (no preharvest interval or PHI). Treated areas may be reentered after the restricted entry interval of 12 hours.

## TANK MIXING

DES-X may be combined with other pesticides to broaden the target spectrum, improve the level of kill, provide residual control, and enhance coverage. When used in a tank-mix, observe all directions for use, crops, use rates, dilution ratios, precautions, and limitations, which appear on the tank mix product label. Do not mix with mancozeb (Manzate or Dithane). Use care when applying as a tank-mix with sulfur or within 3 days of sulfur application as it may increase sulfur-induced plant damage on sensitive plants, such as grapes. Do not tank mix DES-X with sulfur when temperatures are higher than 90°F. Do not allow tank mixes to sit for longer than 24 hours. Mix and spray as soon as possible.

For tank mixing with other pesticides, use DES-X at a concentration of 1% by volume (1 gallon of concentrate in 100 gallons of total spray mix).

*Test a few select plants prior to full area treatment.*

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Store this product in its original container and keep in a secure storage area out of reach of children and domestic animals. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not reuse or refill the container. Triple rinse container (or equivalent) following label instructions promptly after emptying. Offer for recycling, if available.

Always carefully read and follow label instructions.

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### KEY CROPS

Corn (field & sweet)  
Flower and bedding plants  
Fruit and nut trees  
Ornamental and shade trees  
Soybean  
Vegetables  
Vines and berries

### KEY PESTS CONTROLLED

Adelgids (woolly aphids)  
Aphids  
Earwigs  
Lace bugs  
Leafhoppers  
Mealybugs  
Mites  
Plant bugs  
Psyllids  
Sawfly larvae  
Scale insects  
Spider mites  
Tent caterpillars  
Whiteflies

### NEW USE

Deer repellent

**CERTIS**  
● ● ● *Biologicals*

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