

R-11[®] – Spreader Activator Nonionic Surfactant



R-11 Spreader Activator improves the activity and efficacy of the spray application by reducing surface tension and increasing penetration into the plant surface.

Benefits:

- High load of surfactant
- 90% active
- Proven performance for over 30 years
- Standard NIS surfactant at many universities
- Excellent tank mix compatibility (especially in cold water)
- Defoaming properties

Use Directions

R-11 is specially formulated for increasing the efficacy of various agricultural chemicals. It is designed for use where quick wetting and uniform coverage of an agricultural chemical on a target surface is required. R-11 may also increase the absorption and translocation of systemic products.

Rates of R-11 may vary with plant and environmental conditions at the time of application. Use the low rates of R-11 if a uniform film on the plant surface is desired. The high rates of R-11 will not result in excessive foaming and should be used in situations such as but not limited to:

- Applications of systemic chemicals
- Application rates as recommended on manufacturers' labels
- Applications made under adverse conditions.

Generally R-11 should be added as the last ingredient into the spray tank with the agitator running. However, some manufacturers' labels may recommend the addition of a nonionic surfactant, such as R-11, into the spray tank earlier in the mixing sequence.

Use Rates

ACARICIDES, FUNGICIDES & INSECTICIDES: Use 2 to 32 fluid ounces per 100 gallons of spray. The higher rate should be as recommended on the pesticide manufacturer's label.

HERBICIDES, DEFOLIANTS & DESICCANTS: Use 6 to 48 fluid ounces per 100 gallons of spray for most applications. The application rates should be as recommended on the herbicide manufacturer's label.

AQUATIC USE RATES: R-11 may be used with aquatically labeled products such as glyphosate, triclopyr and diquat herbicides at 64 fluid ounces per 100 gallons of spray solution. The application rates should be as recommended on the herbicide manufacturer's label.

NOT FOR AQUATIC USE IN WASHINGTON

PLANT GROWTH REGULATOR: When an EPA Registered Plant Growth Regulator recommends the use of a nonionic surfactant, R-11 can be used at the rate suggested on the respective label. If there is no recommended rate for the nonionic surfactant on the Plant Growth Regulator label, then R-11 should be used at the general wetting rate of 16 to 32 fluid ounces per 100 gallons of spray solution.

BACKPACK OR HAND-HELD SPRAYERS: Use 1 to 2 tablespoons (½ to 1 fluid ounces) per gallon of spray. The application rates should be as recommended on the manufacturer's label.

LIVESTOCK SPRAYS: Use 4 to 8 fluid ounces per 100 gallons of spray.

SOIL STERILANTS: Use 1% of total spray.

Rate Exceptions

COMPLIANCE WITH MANUFACTURER'S LABEL: For pesticide/herbicide labels that permit use of a nonionic surfactant at a higher rate, follow instructions on that pesticide/herbicide label.

DO NOT ADD THIS PRODUCT AT RATE WHICH EXCEEDS 5% OF THE FINISHED SPRAY VOLUME.

NOTE: Use caution at the higher application rates. When applying to a sensitive crop, first treat a small area to determine if there may be adverse effects to the crop.