



A Nonionic Wetting Agent / Spreader / Penetrant Surfactant

BREAK-THRU®

PRINCIPAL FUNCTIONING AGENTS:

Polyether-Polymethylsiloxane-Copolymer	100%
Constituents ineffective as spray adjuvants	0%
TOTAL	100%

WA Reg. No. 65343-03001

All ingredients are exempt from the requirements of a tolerance as specified in 40 CFR 180. *This product is an organo-silicone surfactant.



KEEP OUT OF REACH OF CHILDREN

WARNING

HARMFUL IN CONTACT WITH SKIN OR IF INHALED. CAUSES SERIOUS EYE IRRITATION.

PRECAUTIONARY STATEMENTS:

Avoid breathing mist / vapors / spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Call a poison center / doctor if you feel unwell. Specific treatment see First Aid section on this label. Dispose of contents / container in accordance with Federal, state, and local regulations.

Personal Protective Equipment: Wear protective gloves / protective clothing / eye protection / face protection. Take off contaminated clothing and wash it before reuse.

ENVIRONMENTAL HAZARDS:

Do not contaminate water sources by cleaning of equipment or disposal of wash water.

STORAGE AND DISPOSAL:

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

Storage: Keep container tightly closed. Store in original container only. Keep in a secure and locked storage area. Do not add water to the contents of this container.

Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent) during mixing and loading. 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.acrcycle.org. Decontaminated containers may also be disposed of in a sanitary landfill.

FIRST AID:

IF ON SKIN Wash with plenty of water.

IF INHALED Remove person to fresh air and keep comfortable for breathing.

IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice / attention.

IF SWALLOWED Rinse mouth. Do NOT induce vomiting. Seek medical attention if you feel unwell.

For Help With Any Spill, Leak, Fire Or Exposure Involving This Material, Call Day Or Night Chemtrec (800)424-9300.

NET CONTENTS: 1 Gallon (3.79 Liters)

Manufactured For:

PLANT HEALTH TECHNOLOGIES

P.O. Box 70013, Boise, ID 83707-0113 • (208)336-2110
GUARANTOR: P.O. Box 198, Lathrop, CA 95330-0198



BREAK-THRU®

GENERAL INFORMATION

BREAK-THRU is a new generation surfactant based on organo-modified siloxane technology for use in water-based pesticide formulations. BREAK-THRU is a highly effective nonionic wetter / spreader / penetrant surfactant. The BREAK-THRU effectiveness may allow the use of the lowest labeled pesticide rate at the lowest recommended surfactant level. Careful observation of spray application is recommended to determine proper and efficient pesticide application. This will optimize the pesticide and surfactant load levels. Read WARNING and precautionary statements carefully before use. While BREAK-THRU has been proven to be a highly efficient surfactant; timing, weather conditions, methods of application, crop conditions, and/or mixture with other chemicals not specifically recommended are beyond the control of the seller. Therefore, the user should carefully observe spray deposits, rate efficiencies, compatibilities and effectiveness in initial application and adjust the adjuvant rates accordingly.

DIRECTIONS FOR USE

Pesticide manufacturers may recommend a rate of nonionic surfactant to be used with their product. Follow the pesticide or active ingredient label recommendations on use of surfactant. However, if the pesticide or active ingredient label does not have a specific recommendation for surfactant use, but does not prohibit the use of a nonionic surfactant, BREAK-THRU should be applied at the rates listed below. Careful observation of spray performance in a trial application with the combination of chemicals to be applied is recommended to determine proper and efficient surfactant rates.

AS AN ADJUVANT WITH DORMANT SPRAYS FOR WALNUT BLIGHT: Apply BREAK-THRU in a concentration of 0.5% or approximately 65 ounces per 100 gallons of spray solution to help penetrate plant tissue when applied with a dormant spray for walnut blight (*xanthomonas campestris juglandis*). Refer to the pesticide label for directions for use and precautionary statements.

AS A SPRAY ADJUVANT FOR PESTICIDES: (Herbicides, Micronutrients, Defoliants, Insecticides, Fungicides)

AS AN ADJUVANT WITH HERBICIDES: Apply BREAK-THRU at a rate of 6 - 13 ounces per 100 gallons of spray solution.

AS AN ADJUVANT WITH DEFOLIANTS: Apply BREAK-THRU at a rate of 6 - 13 ounces per 100 gallons of spray solution.

AS AN ADJUVANT WITH MICRONUTRIENTS: Apply BREAK-THRU at a rate of 4 - 8 ounces per 100 gallons of spray solution.

AS AN ADJUVANT WITH INSECTICIDES: Apply BREAK-THRU at a rate of 4 - 8 ounces per 100 gallons of spray solution.

AS AN ADJUVANT WITH FUNGICIDES: Apply BREAK-THRU at a rate of 4 - 8 ounces per 100 gallons of spray solution.

FOR USE WITH AERIAL APPLICATIONS: Apply BREAK-THRU at a rate of 12 - 16 ounces per 100 gallons of spray.

AS A SOIL WETTING AGENT:

GOLF COURSE TEES AND GREENS: Apply at a concentration of 0.1% v/v or use the Spray Rate Chart below. Repeat as needed to overcome hydrophobic soil condition. Irrigation is not needed, but will help incorporate the treatment into the soil.

SPRAY RATE CHART

Spray Rate / 1000 sq. ft.	Amount of BREAK-THRU in mix
1.0 gallon	1/8 ounce
1.5 gallons	1/5 ounce
2.0 gallons	1/4 ounce

FOR LARGE AREAS OF APPLICATION: Apply at a rate of 1 - 2 ounces per acre. Typically applied in 10 - 20 gallons of water per acre. Apply weekly applications or as part of a maintenance program to overcome hydrophobic soil conditions and localized dry spots.

INJECTION THROUGH IRRIGATION: Adjust proportioning valve to inject at the ratio 1:1000, based on weekly application. To accommodate 100:1 proportioners, mix a 10% solution of BREAK-THRU and water and inject at 100:1.

AS A MULCH, PEAT OR POTTING SOIL WETTING AGENT: Apply at a concentration of 0.05 - 0.1% v/v of water (6 - 13 ounces per 100 gallons). Repeat as needed.

AS A DEW CONTROL AGENT: BREAK-THRU will prevent dew formation on turf areas such as tees and greens. Apply BREAK-THRU with a boom sprayer and hand sprayer. Use a concentration of 0.1% BREAK-THRU in water or approximately 13 ounces per 100 gallons every 7 - 10 days.

FOR USE WITH LIQUID FERTILIZATION: Add BREAK-THRU to liquid fertilizer / water solutions at the rate of 4 - 8 ounces per 100 gallons of mix.

NOT FOR AQUATIC USE.

MIXING INSTRUCTIONS

1. Fill tank to 2/3 to 3/4 full of water. If foaming is anticipated, add an anti-foaming agent before pesticide and BREAK-THRU.
2. Add pesticide as directed by pesticide label.
3. Continue agitation.
4. Add BREAK-THRU and continue filling tank while maintaining agitation.

DISCLAIMER OF WARRANTIES: J.R. Simplot Company warrants that the chemical composition of this product conforms to the chemical description and is reasonably fit for the purpose as stated on the label only when used in accordance with label directions under normal conditions of use. To the extent consistent with applicable law J.R. Simplot Company makes no other EXPRESS or IMPLIED WARRANTIES either OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE. Handling, storage and use of the product by Buyer or User are beyond the control of J.R. Simplot Company and seller. To the extent consistent with applicable law risks such as crop injury, ineffectiveness of other unintended consequences resulting from, but not limited to, ether or soil conditions, presence of other materials, disease, pest, drift to other crops or property or failure to follow label directions will be assumed by the Buyer or User; To the extent consistent with applicable law, in no case will J.R. Simplot Company or Seller be held liable for consequential, special or indirect damages resulting from the handling, storage or use of this product.

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