

BREAK-THRU®



NONIONIC WETTER/SPREADER/PENETRANT SURFACTANT

T&O

S P E C I M E N

ACTIVE INGREDIENT:

100%.....POLYETHER-POLYMETHYLSILOXANE-COPOLYMER

All ingredients are exempt from the requirements of a tolerance as specified in 40 CFR 180.1001 (c).
BREAK-THRU® IS A REGISTERED TRADEMARK OF GOLDSCHMIDT CHEMICAL CORPORATION.

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 surfactant/wetter/spreader penetrant. 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.

WARNING PRECAUTIONARY STATEMENTS

- MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN, DO NOT GET ON SKIN OR CLOTHING.
- CAUSES EYE IRRITATION. DO NOT GET IN EYES
- HARMFUL IF SWALLOWED
- AVOID BREATHING VAPOR OR MIST.
- AVOID USING PRODUCT IN A MANNER AS TO DIRECTLY, OR THROUGH DRIFT, EXPOSE WORKERS OR OTHER PERSONS
- ALWAYS FOLLOW THE PRECAUTIONARY STATEMENTS ON THE LABEL OF THE PESTICIDE(S) OR MICRO NUTRIENTS THAT ARE TO BE USED WITH BREAK-THRU®.
- ALWAYS CONSULT THE MATERIAL SAFETY DATA SHEET FOR SPECIFIC INSTRUCTIONS
- APPLICATORS AND OTHER HANDLERS MUST WEAR GOGGLES OR A FACIAL SPLASH SHIELD; CHEMICAL RESISTANT GLOVES, SUCH AS NITRILE RUBBER > 14 MILS OR NEOPRENE RUBBER > 14 MILS; COVERALLS OR LONG SLEEVED SHIRT AND LONG PANTS; SHOES PLUS SOCKS AND MIST FILTERING RESPIRATOR.
- KEEP OUT OF REACH OF CHILDREN.

IN CASE OF CONTACT

- IN EYES - Immediately wash eyes with large amounts of water for at least 15 minutes, lifting the upper and lower lids. Seek medical attention IMMEDIATELY.
- ON SKIN - Remove contaminated clothing and immediately wash contaminated area with large amounts of water for at least 15 minutes. If contact is made with the spray solution containing pesticides, follow the "Statement of Practical Treatment" on pesticide label. Seek medical attention.
- IF SWALLOWED - If person is conscious, immediately give large quantities of water and induce vomiting. UNLESS OTHERWISE DIRECTED BY LABEL ON PESTICIDE(S). Do not induce vomiting or give fluids by mouth to an unconscious person. Seek medical attention immediately.
- IF INHALED - Move person to fresh air and check to ensure adequate respiration. Seek medical attention immediately.

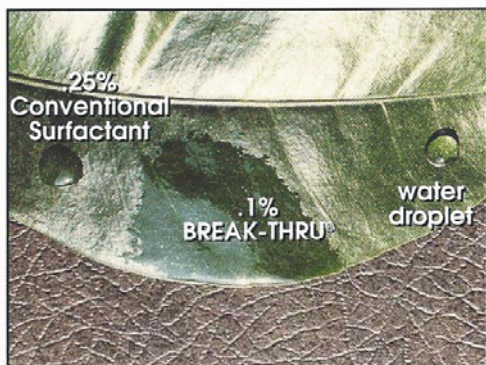
IN CASE OF EMERGENCY OR SPILL Contact CHEMTREC at 1-800-424-9300.

Not for sale in the following states: CA, ID, KY, MS, TN, UT, WA, WY

BREAK-THRU[®]

Surfactant Technology!

Based on organo modified siloxane chemistry
provides top performance in:

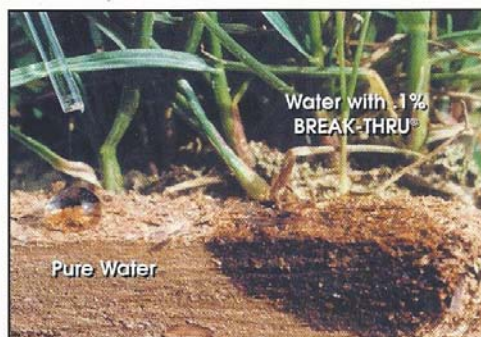


◁ SPREADING AND WETTING

- Penetration = Rainfastness
- Complete Coverage
- Low Usage Rates = High Performance Levels

▷ SOIL PENETRATION

- Defeats Hydrophobic Soil Conditions
- Penetrates Thatch
- LDS Control



◁ DEW CONTROL

- Dew Knock Down
- Continued Control
- Increases Playing Time



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Performance Materials

Break-Thru[®] is a registered Trademark of
Goldschmidt Chemical Corporation.
1-800-446-1809

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 A SPRAY ADJUVANT FOR PESTICIDES:

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

WITH PLANT GROWTH REGULATORS: Apply BREAK-THRU® at a rate of 6-13 ounces per 100 gallons of spray solution.

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

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

AS A SOIL WETTING AGENT:

FOR ATHLETIC FIELDS, GOLF COURSE TEES, FAIRWAYS AND GREENS

BOOM SPRAYERS: Apply 20 ounces per acre, preferably just before irrigation, although immediate watering in is not essential.

Spray volume must be at least 50 gal/acre. Repeat at 14 day intervals or as needed.

INJECTION THROUGH IRRIGATION: Apply 20 ounces per acre. For example: Adjust proportioning valve to inject at the ratio of 1:1000. (To accommodate 100:1 proportioners, mix a 10% solution of BREAK-THRU® and water at 100:1) For irrigation systems delivering around 20,000 gals/acre/hr run injector for first 30 seconds of cycle. Repeat at 14 day intervals as needed.

SPOT TREATMENT OF HYDROPHOBIC AREAS: Spray 3 oz/1000 sq.ft. and water in immediately with irrigation or water spray of at least 5 gal/1000 sq.ft. Repeat as needed.

AS A DEW CONTROL AGENT:

BREAK-THRU® will control dew formation on turf areas such as athletic fields, tees and greens. Apply BREAK-THRU® with a boom or hand sprayer to wet area thoroughly. Use a concentration of 0.2% BREAK-THRU® (25 ounces per 100 gallons).

FOR USE WITH LIQUID FERTILIZERS:

Add BREAK-THRU® to liquid fertilizer/water solutions at rates of 4 to 8 ounces per 100 gallons of mix.

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.

CONDITIONS OF SALE

LIMITATION OF LIABILITY AND REMEDIES GOLDSCHMIDT CHEMICAL CORPORATION

Conditions of sale and limitations of liability and remedies. Insufficient control of pests and/or injury to the turf or crop areas to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions or good application practices, all of which are beyond the control of the seller. In addition, failure to follow label directions may cause injury to other crops, animals, man or the environment.

This product is to be used and applied according to the label directions by professionals trained in the use of agricultural chemicals.

This material is not intended for use by nor should be used by consumers. The seller warrants that this product conforms to the chemical description of the label and is reasonably fit for the purposes referred to in the DIRECTIONS FOR USE subject to the factors noted above which are beyond the control of the seller.

THE SELLER MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND, EXPRESSED 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 SELLER FOR ANY CAUSE OF ACTION RELATING TO THE HANDLING OR USE OF THIS PRODUCT IS CLAIM FOR DAMAGE, AND IN NO EVENT SHALL DAMAGES OR ANY OTHER RECOVERY OF ANY KIND AGAINST THE SELLER EXCEED THE PRICE OF THE PRODUCT WHICH CAUSES THE ALLEGED LOSS, DAMAGE, INJURY OR OTHER CLAIM. THE SELLER SHALL NOT BE LIABLE AND ANY AND ALL CLAIMS AGAINST THE SELLER ARE WAIVED, FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR EXPENSES, OF ANY NATURE INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS OR INCOME, OR ANY LIABILITY INCURRED BY THE BUYER TO ANY THIRD PARTY IN ANY WAY ARISING OUT OF OR RELATING TO THE HANDLING OR USE OF THIS PRODUCT, WHETHER OR NOT BASED ON THE SELLER'S NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY IN TORT OF ANY OTHER CAUSE OF ACTION.

The seller offers 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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Performance Chemicals

Goldschmidt Chemical Corporation • 914 E. Randolph Rd. • Hopewell, VA 23860 • 1-800-446-1809