Technical Profile for Lexicon Intrinsic Brand Fungicide:

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- **Signal Word**: Caution
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- **PPE**: Long sleeved shirt and pants/chemical resistant gloves/shoes plus socks

**Use Sites**: All major turfgrass use sites, including:
- Golf courses
- Sports and athletic fields
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- Other maintained turfgrass areas

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**Lexicon™ Intrinsic™ brand fungicide** from BASF was developed by combining the latest in carboxamide technology — **Xemium® fungicide** with the power of **Insignia® Intrinsic™ brand fungicide**. Building on our experience with **Honor® Intrinsic™ fungicide**, BASF has created a new broader spectrum and more active combination fungicide resulting in improved plant health.

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### Xemium: Key Technical Characteristics
- Active ingredient: Fluxapyroxad
- Mode of action (see right)
- Redistribution and continuous supply of fungicide in the leaf
- Active on multiple fungal development stages

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### Mode of Action
Fluxapyroxad blocks respiratory Complex II, also known as a succinate dehydrogenase inhibitor (SDHI). Blocking of Complex II disrupts the energy supply and biosynthesis of essential fungal building blocks.

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### Continuous Redistribution in the Plant
In addition to being tightly bound to the waxy leaf surface, making it rainfast, fluxapyroxad is redistributed from the wax to areas of the leaf that are not directly sprayed. Its unique molecular design lets it enter the transpiration stream and travel systemically within the leaf. This redistribution along with its high level of activity, ensures long-lasting preventative and curative effects from fluxapyroxad — thus resulting in reliable more consistent disease control.
When Failure is not an Option

When failure is not an option, trust Lexicon™ Intrinsic™ brand fungicide — the cornerstone of your healthy fungicide program. Lexicon Intrinsic brand fungicide is the most effective, broadest spectrum turf fungicide and provides the ultimate protection and plant health for your turf. See for yourself and make Lexicon Intrinsic brand fungicide your product of choice for foundation and holiday sprays.

Advanced Disease Control
• Combines a next generation carboxamide with enhanced systemic properties for continuous protection with the proven performance of Insignia™ SC Intrinsic brand fungicide

Advanced Plant Health
• Delivers Advanced Plant Health for increased photosynthesis, stronger roots and improved turf vitality, creating resilience
• The cornerstone of your longer-lasting, more consistent fungicide program

Research Results:
Research has shown that using Lexicon Intrinsic brand fungicide as the foundation of a healthy fungicide program can deliver superior disease control and plant health.

Diseases treated by Lexicon:
• Anthracnose; Colletotrichum graminicola
• Bentgrass dead spot; Ophiostoma agrostis
• Bermudagrass decline; Gaeumannomyces graminis var graminis
• Brown ring patch; Rhizoctonia circinata var. cincinata (previously called ‘Waitea patch’)
• Brown patch; Rhizoctonia solani
• Dollar spot; Sclerotinia homoeocarpa
• Fairy ring various; Basidiomycete fungi
• Gray leaf spot; Pyricularia grisea
• Large patch of warm season turfgrasses, including Zoysia patch; Rhizoctonia solani
• Leaf spots; Bipolaris, Drechslera, and Exserohilum spp.
• Pink patch; Limonomycetes roseipellis
• Pythium blight; Pythium aphanidermatum, Pythium spp.
• Pythium root dysfunction; Pythium volutum, Pythium spp.
• Rhizoctonia leaf or Sheath blight; R. oryzea, R. zea
• Snow mold, gray and pink; Typhula incarnata or T. ishikariensis and Microdochium nivale or Monographella spp.
• Summer patch; Magnaporthe poae
• Take-all patch; Gaeumannomyces graminis var. avenae

*See label for a complete list of diseases treated.

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For maximum results apply Lexicon Intrinsic brand fungicide at least four times per year targeting high stress times such as spring, summer and fall holidays. For more detailed program recommendations and to target a specific disease problem, please refer to the BASF Fungicide Program Guide or call your local BASF Sales Specialist.
The Evolution of Intrinsic

Intrinsic is the umbrella brand for any BASF fungicide that combines disease control with plant health. Intrinsic has been an ever-evolving brand which now includes Lexicon Intrinsic, our most advanced plant health product. With the addition of the active ingredient in Xemium to the active ingredient in Insignia SC, users will see enhanced photosynthesis plus increased root mass.

PLANT HEALTH

Based on active ingredient Insignia SC

ADVANCED PLANT HEALTH

Next generation Intrinsic bolstered by additive effect of fluxapyroxad

Rooting of ‘Apache’ Tall Fescue

Turf grass was placed in a chamber where roots were routinely misted throughout a 24 hour period. An initial application of fungicides were applied at the label rates, and a second application was made two weeks later at the same rates. The photograph at right compares rooting of the turf grass 28 days after the second treatment. Lexicon Intrinsic brand fungicide treated turf provided the greatest root mass and greatest root length when compared to Heritage® TL and the untreated turf.

Enhanced Photosynthesis

Bentgrass had 80% faster rate and TifEagle had 150% faster rate of photosynthesis, which leads to healthier turf.

Float time 50 test indicates faster photosynthesis in blade segments treated with Lexicon Intrinsic brand fungicide

Location and photo: BASF Corp., Research Triangle Park, NC.
Dollar Spot Efficacy with Fewer Applications

Using Lexicon Intrinsic brand fungicide on a 21-day interval produced the same Dollar Spot control as using Headway—with half the applications!

Consistent Brown Patch Control from Two Applications

Two applications May 23 and June 23, 2013, 28-d interval. Selected treatments shown. Location: Clemson Univ.; B. Martin, 2013

The Lexicon Intrinsic Difference: Curative Brown Ring Patch Control

Location: Univ. of CA Riverside; F. Wong, 2009

Curative Dollar Spot: Speed of Control

In the first three days, Lexicon Intrinsic brand fungicide demonstrates 50% faster control of Dollar Spot.

Summer Patch Control

Take-all Patch Efficacy

Trial results shown are at 79 days after trial initiation on bentgrass green. Selective treatments shown. Location: University of Wisconsin; Dr. J. Kerns, 2011
**Lexicon Intrinsic brand fungicide as part of a Bentgrass Summer Stress Program**

- 2 Strobilurin Applications
- 2 StressGard®
- 2 Dyes (Fore® Rainshield®)
- 1 Daconil Ultrex®
- 10 Unique Active Ingredients

**15 Total Products**

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**Fairy Ring Efficacy on Tall Fescue Rough**

Lexicon Intrinsic applied 7/2, 7/23 and 8/13 and Prostar 7/2 and 8/13 only to fairy ring species Agaricus campetris and final observations taken in October.

Location: Penn State Univ.; M. Fidanza, 2012

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**Snow Mold Efficacy on Annual Bluegrass Fairway**

Lexicon Intrinsic brand fungicide ranked #1 out of 28 treatments

Applications initiated 8/22/12. Lexicon Intrinsic brand fungicide alternated with Daconil Action, solo. Daconil Action and solo Chipco 26GT on 14-d interval.

Location: Clemson Univ.; B. Martin, 2012

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**Speed of Curative Bipolaris Leaf Spot Control**

Avg. 27% leaf area infected at first application

Location: Clemson Univ.; B. Martin, 2012

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**Control of Bipolaris spp. leaf spot on TifDwarf Bermudagrass Green**

Location: Sustainable Pest Management Solutions, ID; H. Wetzel, 2013

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Photos courtesy of and location: North Carolina State Univ.; J. Kerns, 2013
Lexicon™ Intrinsic™ brand fungicide

Always read and follow label directions.

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- Institutional lawns
- Greens and Putting Greens
- Commercial and municipal lawns
- Parks and recreational areas
- Greens and Putting Greens
- Golf courses

18 3/4” OFC
17 1/2”
1/2”
9”
5 1/2”
3/4”
12”
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