

## Evaluation Report for Category B, Subcategory 3.11, 3.12 Applications

**Application Number:** 2012-2181  
**Application:** Changes to Product Labels-New Pests & New Site or Host  
**Product:** BAS 516 F ST  
**Registration Number:** 30184  
**Active ingredients (a.i.):** Boscalid (CHH), Pyraclostrobin (PYA)  
**PMRA Document Number :** 2224756

### Purpose of Application

The purpose of this application was to add chickpea, field pea, lentil, dry bean and soybean seed treatment to the label of BAS 516 F ST (Registration Number 30184; guarantee 200 g/L boscalid and 100 g/L pyraclostrobin).

### Chemistry and Environmental Assessments

Chemistry and environmental assessments were not required for this application.

### Health Assessments

A toxicology assessment was not required for this application.

An assessment was performed for commercial and on-farm treaters and planters that may be exposed to BAS 516 F ST with the proposed new uses. No risks of concern were identified for boscalid and pyraclostrobin with the new uses. No unacceptable risk is expected when workers follow the label directions and wear the personal protective equipment identified on the label.

No new food residue chemistry data were submitted for boscalid and pyraclostrobin to support the addition of chickpeas, field peas, lentils, soybeans and dry beans to the BAS 516 F ST label. Previously reviewed field trial data for dry beans, dry peas and soybeans were re-assessed in the context of the current application. The application rates for this seed treatment product on chickpeas, field peas, lentils, soybeans and dry beans are considerably lower than the registered application rates for the foliar application on pulses. As such, the magnitude of residues in these crops resulting from the seed treatment use will be covered by the respective MRLs established for pyraclostrobin and boscalid. Dietary exposure to boscalid and pyraclostrobin should therefore not increase and will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

### Value Assessment

BAS 516 F ST is a seed treatment fungicide containing two active ingredients, boscalid and pyraclostrobin. The pulse crops chickpea, field pea, lentil, dry bean and soybean are subject to

many common seed and soil-borne pathogens which cause diseases such as seed rot, seedling blight and root rot. A total of 51 efficacy trials were reviewed to support the proposed claims. BAS 516 F ST consistently controlled or suppressed *Fusarium*, *Rhizoctonia*, *Ascochyta*, *Colletotrichum* and *Botrytis* infection under moderate to high disease pressure in the trials. BAS 516 F ST also controlled *Pythium* infection when tank-mixed with metalaxyl-containing products. BAS 516 F ST significantly improved stand establishment and reduced root rot diseases. The efficacy of BAS 516 F ST is comparable to or superior to the commercial standards applied in these trials. BAS 516 F ST provides a broad-spectrum disease control. The use of this product would complement existing management practices by introducing a new fungicide seed treatment to the market.

The proposed label claims are supported for the control of seed rot and seedling blight caused by *Fusarium* spp., *Rhizoctonia solani*, *Ascochyta* spp., *Colletotrichum* spp. and *Botrytis* spp. on proposed crops; for the suppression of root rot caused by *Fusarium* spp. and *Rhizoctonia solani* on proposed crops; and for the control of seed rot and seedling blight caused by *Pythium* spp. on proposed crops by tank-mixing BAS 516 F ST with Apron XL LS or Allegiance FL. The rates and use directions are the same as proposed. Label amendments are required.

## Conclusion

The PMRA has reviewed all available information for BAS 516 F ST and found the information sufficient to support the addition of chickpea, field pea, lentil, dry bean and soybean seed treatment to the label of BAS 516 F ST.

## References

PMRA Document Number	Reference
2199623	2012, BAS 516 F ST (Boscalid & Pyraclostrobin) Petition for Seed Treatment Application in Pulse Crops (Chickpea, Dry Bean, Field Pea, Lentil and Soybean), DACO: 10.1, 10.2, 10.2.3, 10.2.3.1, 10.2.3.2(D), 10.2.3.3(D), 10.3, 10.3.1, 10.3.2
2222279	2012, IR-4 Ornamental Horticulture Program Fusarium Efficacy: A Literature Review. <i>Fusarium avenaceum</i> , <i>Fusarium communi</i> , <i>Fusarium oxysporum</i> and <i>Fusarium solani</i>
2222280	2006, Effect of Doses of Fungicides and Plant Resistance Activators on the Control of Rhizoctonia Foliar Blight of Soybean, and on <i>Rhizoctonia solani</i> AG1-IA in Vitro Development. <i>Crop Protection</i> 25: 848 – 854.

ISSN: 1911-8082

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