

A 3D ball-and-stick model of a molecular structure, likely representing the active ingredient of Kixor. It features several green spheres (likely carbon) and smaller grey spheres (likely oxygen or nitrogen) connected by white rods. The structure is shown in a perspective view, appearing to be on a green surface.

Kixor[®] Herbicide

**A New Herbicide Active Ingredient
For Preplant Burndown & Preemergence
Broadleaf Weed Control, and for Harvest
Aid / Desiccation**

Craig Kleppe, Product Registration Manager

IR-4 Food Use Workshop

September 2009

 **BASF**

The Chemical Company

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Kixor® Herbicide

Regulatory Status



- Full data package submitted for registration in January 2008
- Trilateral workshare review conducted in Australia, Canada and USA
- Favorable toxicology, ecotoxicology, and environmental profile
- Pyrimidinedione class of chemistry – PPO inhibitor
- 35 Tolerances (14 crop, 21 animal) established for Saflufenacil:
 - vegetable legumes CG 6, 7
 - fruit trees CG 10, 11, 12
 - nut trees CG 14, almond hulls, pistachio
 - cereal grains CG 15, 16
 - cotton undelinted seed, gin byproducts
 - sunflower seed
 - Grape
 - animal milk, meat, fat, liver, meat byproducts (except liver)
- EPA Section 3 registration granted September 11, 2009
- Market introduction in 4Q 2009



Kixor[®] Herbicide

Biological Profile



■ Application Rates

- Foliar Burndown: 25 - 50 g ai/ha, Soil Residual: 50 -125 g ai/ha

■ Weeds Controlled

- Over 70 broadleaf weeds including glyphosate-, ALS-, and triazine-resistant biotypes, and glyphosate weed gaps

■ Labeled Crops

- Corn (grain, silage), popcorn, grain sorghum, soybean, dry field pea, chickpea (garbanzo bean), wheat (durum, spring, winter), barley, oats, cotton, sunflower (harvest aid/desiccation), fallow, postharvest, citrus trees (10), pome fruit trees (2), nut trees (3)

Kixor[®] Herbicide Family of Products

BASF
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TREEVIX™ X
POWERED BY **iquazone** HERBICIDE

INTEGRITY™ X
POWERED BY **iquazone** HERBICIDE

SHARPEN™ X
POWERED BY **iquazone** HERBICIDE

OPTILL™ X
POWERED BY **iquazone** HERBICIDE



Dry WG

Use Rate: 1 oz/A

- Citrus
- Pome Fruit
- Tree Nut



Liquid EC

Use Rate: 10 to 16 fl oz/A

- Corn (field & silage)
- Popcorn



Liquid SC

Use Rate: 1 to 4 fl oz/A

- Cereals
- Corn
- Cotton
- Fallow
- Grain Sorghum
- Pulses
- Soybean
- Sunflower (desiccation)



Dry WG

Use Rate: 1.5 to 2 oz/A

- Soybean
- Pulses

KIXOR
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Kixor[®] Herbicide

IR-4 Project Opportunities



■ Potential IR-4 Food Uses:

● Post-Directed Burndown (and Row Middles):

- Cane and Bush Berries (CG 13),
- Other tropical/subtropical fruits (trees, shrubs, vines), pomegranate, kiwifruit
- Olive
- ***Lack of crop tolerance known in fig and avocado***

● Harvest-Aid / Desiccation:

- Potato (efficacy known)

● Other Non-Food or Feed Uses:

- Forage grasses (pasture, biofuels)

■ Consult BASF regarding target use rates for crop tolerance testing

