0443	/IRONMENTAL PROTECTION AGENCY ice of Pesticide Programs	EPA Reg. Number:	Date of Issuance:
2 👩 🚡 1200	stration Division (7505C) ) Pennsylvania Ave., N.W. Washington, D.C. 20460	100-1198	JUL 27 2005
	PESTICIDE: egistration	Term of Issuance Condition	
	eregistration	Name of Pesticio	de Product:
(under FIFRA, as amended)		Pinoxaden	Technical
Name and Address of Registrant (inc.	lude ZIP Code):	·····	<u></u>
Syngenta Crop Protect P.O. Box 18300 Greensboro, NC 27419	ion, Inc.		
Note: Changes in labeling differing be submitted to and accepted by the correspondence on this product alway	Registration Division prior	to use of the label in com	s registration must merce. In any
On the basis of information furnisher registered/reregistered under the Fe			БУ
Registration is in no way to be cons In order to protect health and the c cancel the registration of a pestic: with the registration of a product a exclusive use of the name or to its	environment, the Administrato ide in accordance with the Ad under this Act is not to be o	or, on his motion, may at a ct. The acceptance of any construed as giving the reg	ny time suspend or name in connection
This product is conditionally reg agree in writing that:	gistered in accordance wit	h FIFRA section 3(c)(7)	)(C) provided you
1) The following data are requir	ed as conditions of registr	ration:	,
(a) Guideline 860.1340: Additio commodities (ruminant and pou		noxaden and M2 residu	es in livestock
(b) Guideline 860.1380: A stud processed fractions (bran, flour s study demonstrating the storage bran, flour, middling, shorts and	and pearled barley) for a stability of M2, M4 and I	minimum duration of 15 M6 in wheat processed f	months and a ractions (AGF,
(c) Guideline 72-1(a.c): fish ac supplemental studies.	oute toxicity tests are requ	ired for parent pinoxade	en to replace
(d) Guideline 72-2: a freshwate to replace an unacceptable study		ty test is required using	parent pinoxaden
ignature of Approving Official:		Date:	
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1) Conditions of Registration (continued)

(e) Guideline 72-3a: an estuarine/marine fish acute toxicity test is required using parent pinoxaden to replace a supplemental study.

(f) Guideline 72-3c: an estuarine/marine shrimp acute toxicity test is required using parent pinoxaden to replace a supplemental study.

(g) Guideline 72-4a: a freshwater fish early life-stage study is required using parent pinoxaden

(h) Guideline 72-4b: a freshwater invertebrate life-cycle study is required using parent pinoxaden

(i) Guideline 71-2 (a,b): Avian dietary studies in mallard duck and bobwhite quail for the formulated product with adjuvant.

(j) Guideline 72-1(a,c): Acute fish toxicity studies for the degradate NOA-407854 on warm water species only, for the degradate NOA-447204 on warm water & cold water species, and for the formulated product with adjuvant on warm water and cold water species

(k) Guideline 72-2: Freshwater invertebrate life-cycle studies for the degradate NOA-447204 and formulated product with adjuvant.

(I) Guideline 72-3b: Marine/estuarine shell deposition studies for the degradates NOA-407854 and NOA-447204.

(m) Guideline 72-4a: Freshwater-fish early life-stage studies for the degradate NOA-407854, and the degredate NOA-447204

(n) Guideline 72-4b: Freshwater invertebrate life-cycle studies for the degradate NOA-447204, and for the degradate NOA-407854 to replace a supplemental study.

(o) Guideline 123-1 (a,b): Seedling emergence and vegetative vigor studies for each of the two main degradates (NOA-407854 and NOA-447204)

(p) Guideline 123-2: Tier II Aquatic plant growth studies for the parent pinoxaden, degradates NOA-407854 and NOA-447204, and for the formulation with adjuvant.

(q) 830 series subgroup A data are required for the pinoxaden technical produced on a commercial scale.

2. Change EPA Reg. No. on label from 100- to 100-1198.

3. Add an appropriate EPA establishment number on label.

4. The Conditions of Sale and Limitation of Warranty and Liability contains language asserting that the buyer has accepted the manufacturer's statement of his/her respective rights (these conditions are beyond the control of registrant X) and contains language which is overly broad implying the buyer has no legal right to recover damages from manufacturer (all such risks shall be assumed by the buyer). These statements must make it clear that it is the registrant's or manufacturer's warranty disclaimer, by using statements like "To the fullest extent permitted by law, the manufacturer shall not be liable for ......" or "It is the manufacturer's intention that ......"

You will submit one (1) copy of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). A stamped copy of labeling is enclosed for your records.

If you have any questions, please contact Hope Johnson at 703-305-5410.

Product Manager (25) Herbicide Branch Registration Division (7505C)

attachment

# ATTACHMENT 1: STATUS OF SUBMITTED DATA REQUIREMENTS AND DATA GAPS

# **Ecotoxicity:**

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Guide. no.	Study description	Test material	Data required?	Data requirement satisfied?	MRID no.	Status
71-1(a)	Acute Avian Oral, Bobwhite	Parent pinoxaden	yes	yes	462031-03	acceptable
71-2(a)	Avian Dietary Toxicity,	Parent pinoxaden	yes	yes	462031-04	acceptable
	Bobwhite	Formulation + adjuvant	yes	no	none submitted	study required
71-2(b)	Avian Dietary Toxicity,	Parent pinoxaden	yes	yes	462031-05	acceptable
	Duck	Formulation + adjuvant	yes	no	none submitted	study required
71-3	Mammalian Acute Oral,	Parent pinoxaden	yes	yes	462032-14	acceptable
	Rat	Formulation	yes	yes	462032-17	acceptable
		NOA-447204 (degradate)	no	n/a	462032-15	n/a - see note
		SYN-502836 (metabolite)	no	n/a	462032-16	n/a - see note
		SYN-519312 (metabolite)	no	n/a	462032-18	n/a - see note
		note: studies with have not been revi			bolites were not	required and
83-3(a)	Mammalian Reproductive, Rat	Parent pinoxaden	yes	yes	462033-08	acceptable
71-4(a)	Avian Reproductive, Bobwhite	NOA-407854 (degradate)	yes	yes	462031-07	acceptable
71-4(b)	Avian Reproductive, Duck	NOA-407854 (degradate)	yes	yes	462031-08	acceptable
71-5	Field Testing, Terrestrial Animals		reserved	n/a	none submitted	n/a
72-1(a)	Fish Acute Toxicity, Warmwater fish	Parent pinoxaden	yes	no	462030-36	supplemental - new study required
		deficiency: test fi	sh were too	old	• • • • • • • •	
		NOA-407854 (degradate)	yes	no	none submitted	study required
		NOA-447204 (degradate)	yes	no	none submitted	study required
		Formulation + adjuvant	yes	no	none submitted	study required

Guide. no.	Study description	Test material	Data required?	Data requirement satisfied?	MRID no.	Status		
72-1(c)	2-1(c) Fish Acute Toxicity, Rainbow Trout	Parent pinoxaden	yes	no	462030-34 + 464215-08	invalid - new study required		
		deficiency: test material was not stable						
		NOA-407854 (degradate)	yes	yes	<b>46203</b> 0-35	acceptable		
		NOA-447204 (degradate)	yes	по	462030-37	supplemental - new study required		
		deficiency: TOC	was too higł	]				
		Formulation + adjuvant	yes	no	462030-39	supplemental - new study required		
		deficiency: precip determination	itant present	but not centrifu	ged prior to ana	lytical		
72-2	Freshwater Invertebrate Acute Toxicity	NOA-447204 (degradate)	yes	no	462030-41	supplemental - new study required		
		deficiency: TOC was too high						
		Parent pinoxaden	yes	no	462030-29	unacceptable - see note below		
		note: the study is r otherwise a new s testing laboratory stock solution rene of the test material concentration resu dilution water and evaluate nominal a	tudy is requ on timing of wal and this , the study c lts prior to co stock solution	<b>uired:</b> (1) if in analytical samp timing is appro- ould be upgrade correction for per on flows into mi	formation can be ling (0, 24 and 4 priate for reflect cd; (2) additional cent recovery an xing chambers a	supplied by the 8 hours) with ing the stability ly, measured ad the amount of		
		NOA-407854 (degradate)	yes	yes	462030-30	acceptable		
		Formulation + adjuvant	yes	по	462030-31	supplemental - new study required		
		deficiency: precip determination	oitant present	t but not centrifi	iged prior to ana	lytical		
72-3(a) Estuarine/Marine Fish Acute Toxicity	Estuarine/Marine Fish Acute Toxicity	Parent pinoxaden	yes	no	462030-38	supplemental - see note below		
		note: the study is a otherwise a new s for the test materia concentration of so also acidified befor material. Provide not re-dissolve pin concentration in di solution preparatio	tudy is required l as required bluble test ma re centrifugio documentation oxaden prior lution water	tired: samples v for poor solubi aterial (EPA, 19 ng which potent on that acidifica to centrifuging.	were centrifuged lity test material 94). However, t ially re-dissolve tion under this c Also need info	before analysis s to obtain the he samples were d particulate test ircumstance did rmation on TOC		

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Guide. no.	Study description	Test material	Data required?	Data requirement satisfied?	MRID no.	Status
72-3(b)	Estuarine/Marine Mollusc	Parent pinoxaden	yes	yes	462030-32	acceptable
	Acute Toxicity - Shell deposition	NOA-407854 (degradate)	yes	no	none submitted	study required
		NOA-447204 (degradate)	yes	no	none submitted	study required
72-3(c)	Estuarine/Marine Shrimp Acute Toxicity	Parent pinoxaden	yes	no	462030-33	supplemental - see note below
		note: the study is note: the study is note: the study is not	study is required al as required oluble test m ore centrifugi ole if the TO deline limits ater samples	uired: samples I for poor solubi aterial (EPA, 19 ng which potent C concentration , and document prior to centrifu	were centrifuged ility test materials 294). However, ti tially re-dissolved in the dilution w tation is provided gation does not re-	before analysis to obtain the he samples were l particulate test ater is provided that
72-4(a)	Early Life Stage, Fish	NOA-407854 (degradate)	yes	no	462031-01	unacceptable - new study required
		note: Repairable to batches) with samp the stability of the upgradeable to acc a new study is rec information is su	ple collection compound t ceptable beca quired even	n times is provid hroughout expo ause a NOAEC	ded and the inform sure. The study was not established	mation supports is not ed and therefore
1		Parent pinoxaden	yes	no	none submitted	study required
		NOA-447204 (degradate)	yes	no	none submitted	study required
72-4(b)	Life Cycle, Aquatic Invertebrate	NOA-407854 (degradate)	yes	no	462030-42	supplemental - new study required
		Deficiency: Precip conducted on anal each renewal cycle undissolved partic described insuffici not form during th	ytical sample e. Report sta les were obse ent to suppo	es collected from ites solubility of erved after 2 to rt that insoluble	n test chambers a test material is > 3 days of mixing	t the end of the 100 ppm but and approach
;		Parent pinoxaden	yes	no	none submitted	study required
		NOA-447204 (degradate)	yes	no	none submitted	study required
72-5	Life Cycle, Fish		reserved	n/a	none submitted	n/a
72-6	Aquatic Bioaccumulation		reserved	n/a	none submitted	n/a
72-7	Simulated or Actual Field Testing, Aquatic Animal		reserved	n/a	none submitted	n/a

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(**)	Seedling Emergence	rormulation + adjuvant	yes	yes	462031-14	acceptable
		NOA-407854 (degradate)	yes	no	none submitted	study required
		NOA-447204 (degradate)	yes	no	none submitted	study required
123-1(b)	Terrestrial Plants, Vegetative Vigor	Formulation + adjuvant	yes	yes	462031-15	acceptable
		NOA-407854 (degradate)	yes	no	none submitted	study required
		NOA-447204 (degradate)	yes	no	none submitted	study required
123-2	Aquatic Plant Growth, Tier II	Parent pinoxaden	yes	no	462031-16 (Lemna)	supplemental - new study required
		deficiency: test so at acidic to neutral		e not renewed at	t least once. Perfo	orm new study
		NOA-447204 (degradate)	yes	no	462031-17 (Lemna)	supplemental - new study required
		deficiency: test so at acidic to neutral		e not renewed at	t least once. Perfe	orm new study
		NOA-447204 (degradate)	yes	no	462031-18 ( <i>Lemna</i> )	supplemental - new study required
i,		deficiency: test so at acidic to neutral		e not renewed at	t least once. Perfo	orm new study
		Parent pinoxaden	yes	Tier I yes Tier II no	462031-19 (Selenastrum)	supplemental - new study required
		deficiency: study new study at acidio			nrs not 96 to 1201	hrs. Perform
		Parent pinoxaden	yes	no	462031-20 (Anabaena)	supplemental - new study required
		deficiency: study reduced growth rat				
		Formulation + adjuvant	yes	no	462031-21 (Pseudokirch- neriella)	supplemental - new study required
		Parent pinoxaden	yes	yes	462031-22 (Skeletonema)	acceptable
		Parent pinoxaden	yes	yes	462031-23 (Navicula)	acceptable
		NOA-407854 (degradate)	yes	Tier I yes Tier II no	462031-24 (Selenastrum)	supplemental - new study required

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Guide. no.	Study description	Test material	Data required?	Data requirement satisfied?	MRID no.	Status
		deficiency: study new study at acidi			hrs not 96 to 120	hrs. Perform
		NOA-447204 (degradate)	yes	yes	462031-25 (Selenastrum)	acceptable
		Formulation + adjuvant	yes	no	464215-09 (Lemna)	supplemental - new study required
		deficiency: precip to measure soluble		-	-	
124-1	Field testing, Terrestrial plants		reserved	n/a	none submitted	n/a
124-2	Field Testing, Aquatic plants		reserved	n/a	none submitted	n/a
141-1	Honey Bee Acute Contact Honey Bee Acute Oral		yes	yes	462031-13 462031-10 462031-09 462031-11 462031-12	acceptable supplemental supplemental supplemental supplemental
n/a	Earthworm toxicity		no	n/a	462031-26 462031-27 462031-28	supplemental supplemental supplemental

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n/a: not applicable reserved: not required for current assessment but reserve right to require if future conditions warrant

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#### Pinoxaden Technical

Herbicide

For formulation only into an herbicide for control of grass weeds in wheat (including durum) and barley

#### Active Ingredient:

Pinoxaden*	
Other ingredients:	2.0%
Total:	100.0%

\*CAS No. 243973-20-8

#### KEEP OUT OF REACH OF CHILDREN.

#### **DANGER / PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

EPA Reg. No. 100-

EPA Est.

ACCEPTED with COMMENTS in EPA Letter Dated

JUL 27 2005

Under the Federal Insecticide, Fungicide, and Rodenticide Act as anomded, for the pesticide registance under EPA Reg. No.

100-190

\_\_\_\_ gallons Net Contents

	First Aid
If in eyes	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
lf on skin or clothing	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
if swallowed	<ul> <li>Immediately call a poison control center or doctor.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give any liquid to the person.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
lf inhaled	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
· · · · · · · · ·	NOTE TO PHYSICIAN
	al damage may contraindicate the use of gastric lavage.
Have the produc doctor or going f	
	HOT LINE NUMBER
	Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call
	1-800-888-8372

## PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

#### DANGER / PELIGRO

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Causes irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Avoid contact with skin or clothing. Harmful if absorbed through skin or swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

#### **Environmental Hazards**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this

product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA..

### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Buyer is solely responsible for any risks created by the use or uses to which it or any User puts this product. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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# DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labelling.

Only for formulating into an herbicide for the following uses: control of grass weeds in wheat (including durum) and barley.

#### STORAGE AND DISPOSAL

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

#### **Pesticide Storage**

Store in a cool, dry place. Do not store near seeds, fertilizer, or foodstuffs

#### Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticides, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label restrictions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### **Container Disposal**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

#### CONTAINER NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

NOA 407855 TECH - pd - 01/27/04 000100-XXXXX.20040130.NOA407855-TECHNICAL.pdf PINOXADEN TECH - pd - 06/22/05 000100-XXXXX.20040130B.NOA407855-TECHNICAL-PIN-TECH.pdf PINOXADEN TECH\_ - pd - 07/18/05 000100-XXXXX.20040130C.NOA407855-TECHNICAL-PIN-TECH.pdf