United States
Environmental Protection Agency

Office of Prevention, Pesticides
and Toxic Substances (7505P)

Pesticide Fact Sheet

Name of Chemical: **Ethiprole**
Reason for Issuance: **New Chemical; Import Tolerances Established**
Date Issued: **March 2011**

DESCRIPTION OF CHEMICAL

Generic Name:	5-amino-l-[2,6-dichloro-4-trilluoromethyl)pheny1]-4- [(ethyl)-sulfinyl]-1*H*-pyrazole-3carbonitrile
Common Name:	Ethiprole
EPA Chemical Code:	005550
Chemical Abstracts Service (CAS) Number:	181587-01-9
Registration Status:	Not Registered; Import Tolerances Established
Pesticide Type:	Insecticide
Chemical Type:	Phenyl-Pyrazole
U.S. Producer:	Bayer CropScience LP 2 T.W. Alexander Drive Research Triangle Park, NC 27709-2014

Tolerances Established:
Import tolerances were established (without U.S. registrations) for residues of ethiprole, including its metabolites and degradate, in the 40 CFR §180.652 in or on the imported plant commodities rice, grain at 1.7 ppm; and tea, dried at 30 ppm.

Use Pattern and Formulations:
Ethiprole is a non-systemic phenyl-pyrazole insecticide that is effective against a wide range of insects. There are currently no MRLs established by CODEX in Canada and Mexico for ethiprole. Bayer CropScience LP is supporting import tolerances on rice and tea. Ethiprole is not registered for use on any crops in the U.S. or Canada; however, it is currently registered for use on tea in Japan and on rice in Brazil, Indonesia, Japan, Thailand and Vietnam. Ethiprole is also conditionally registered for use on rice in China. Ethiprole is formulated as a 100-200 g/L SC for use on rice and tea in Japan, and is also formulated in Japan for use on rice as a 20 g/kg granule (2% GR) and a 5 g/kg dustable powder (0.5% DP).

Science Findings:
Available product chemistry data supporting the use of ethiprole are summarized below in Tables 1 and 2.

Table 1. Nomenclature of Ethiprole and Ethiprole Sulfone.

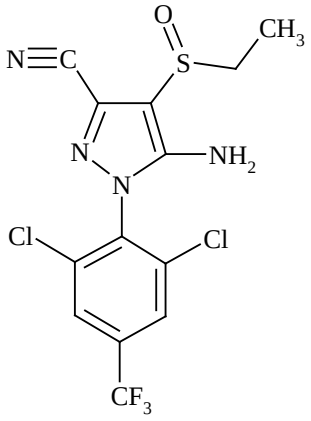
Chemical structure	
Common name	Ethiprole
Company experimental name	RPA107382; AE 0316423
IUPAC name	(±)-5-amino-1-(2,6-dichloro-α,α,α-(trifluoro-p-tolyl)-4-ethylsulfinylpyrazole-3-carbonitrile
CAS name	(±)-5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(ethyl)-sulfinyl]-1H-pyrazole-3-carbonitrile
CAS registry number	181587-01-9
Molecular weight	397.21
End-use products (EPs)	100-200 g/L SCs; 2% GR and 0.5% DP formulations are also registered for use on rice in Japan only.

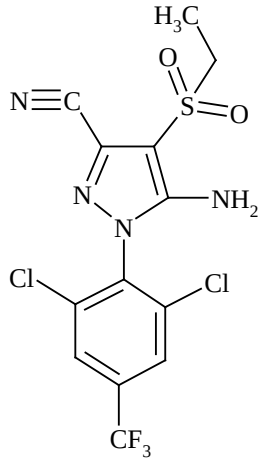
Table 1. Nomenclature of Ethiprole and Ethiprole Sulfone.	
Chemical structure	
Common name	Ethiprole sulfone
Company experimental name	RPA097973; AE 0316424
IUPAC name	(±)-5-amino-1-(2,6-dichloro-α,α,α-(trifluoro-*p*-tolyl)-4-ethylsulfonylpyrazole-3-carbonitrile
CAS name	(±)-5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(ethyl)-sulfonyl]-1*H*-pyrazole-3-carbonitrile
CAS registry number	120068-68-0
Molecular weight	413.21

Table 2. Physicochemical Properties of Technical Grade of Ethiprole.		
Parameter	Value	Reference
Melting point/range	No melting point observed before decomposition at 165.5°C	Ethiprole Monograph, Annex B.2 (MRID 47622834)
pH	not available	
Relative density	1.54-1.56	
Water solubility (g/L at 20°C)	9.2	
Solvent solubility (g/L)	acetone 90.7 acetonitrile 24.5 dichloromethane 19.9 ethyl acetate 24.0 n-heptane 0.004 toluene 1.0 methanol 47.2 n-octanol 2.4	
Vapor pressure (at 25°C)	9.1×10^{-8} Pa	
Dissociation constant, pK_a	-3.9	
Octanol/water partition coefficient, $Log(K_{OW})$ at 20°C	2.9	
UV/visible absorption spectrum in methanol (molar absorption coefficients for the absorbance maximum)	3,641 L/mol·cm at 292.5 nm 2,880 L/mol·cm at 295.0 nm 1,977 L/mol·cm at 300.0 nm 1,247 L/mol·cm at 305.0 nm 761 L/mol·cm at 310.0 nm	

TOXICOLOGY SUMMARY:

Ethiprole has a low acute toxicity via the acute oral, dermal, and inhalation routes of exposure, and is not a skin sensitizer nor a skin or eye irritant. The registrant submitted subchronic, chronic, carcinogenicity, reproductive, developmental, and neurotoxicity toxicity studies as shown in Tables 3, 4, 5, 6, and 7.

Table 3 Subchronic, Chronic, and Other Toxicity Profile of Ethiprole					
Type of study Concentrations in feed of doses	**NOEL/NOAEL ppm**	**mg/kg/d**	**LOAEL ppm**	**mg/kg/d**	**Adverse effects at LOAEL and higher dose levels**
28- day mouse study, 0, 50, 250, 1000 and 2500 ppm (0, 9.3, 47.4, 186.2, 458 mg/kg/day in Males; 0, 11.8, 57.9, 234.4, 513 mg/kg/day in Females) MRID 47622828	50 (M/F)	9.3/ 11.8 (M/F)	250 (M/F)	47.4/ 57.9 (M/F)	Lower total biririubin (↓64-69%), increased liver weights (↑10-16%) and histopathologic changes in the liver
28- day rat study, 0, 20, 100, 500 and 2500 ppm (0, 1.8, 9.2, 46.1,	20 (M/F)	9.2 / 9.6 (M/F)	100 (M/F)	46.1/ 46.3 (M/F)	Higher prothrombin time, ALAT activity, cholesterol, triglyceride and total protein concentration, imbalance of thyroid hormones, increased liver weights

Table 3 Subchronic, Chronic, and Other Toxicity Profile of Ethiprole					
Type of study Concentrations in feed of doses	**NOEL/NOAEL ppm**	**mg/kg/d**	**LOAEL ppm**	**mg/kg/d**	**Adverse effects at LOAEL and higher dose levels**
219.3 mg/kg/day in Males; 0, 2.0, 9.6, 46.3, 220.2 mg/kg/day in Females) MRID 47622804					(35%/96%; M/F), thyroid weight (41%/40%; M/F) and adrenals weights (16%/15%; M/F)
90- day rat study, 0, 5, 100, 500 or 2500 ppm (0, 0.30, 1.17, 30.48, 154.75 mg/kg/day in Males; 0, 0.37, 1.50, 37.57 and 187.87 mg/kg/day in Females) MRID 47622806	20	1.2 / 1.5 (M/F)	500	30.5 / 37.6 (M/F)	Mortality, higher prothrombin prothrombin time, Cholesterol, Triglyceride, Total protein, Calcium concentrations and lower chloride concentration, imbalance of thyroid hormones, increased liver weight (57%/96%; M/F) and thyroid weight (48%/44%; M/F) and histopathologic changes in the liver and thyroid
90-day dog study, 0, 30, 90 200, ppm (0, 1.0, 3.2 and 7.6 mg/kg/day in Males; 0, 1.1, 3.6 and 8.5 mg/kg/day in Females) MRID 47622807	Not est. /90 (M/F)	1.0 / 3.6 (M/F)	30/ 200 (M/F)	3.2 / 8.5 (M/F)	In Males: decrease prostate weight (↓59%), testis weight (↓31%) and epididymis weight (↓34%) and increase thymus weight (29%). In Females: Mortality, increased alkaline phosphatase activity and thymic atrophy
1 year dog study, 0, 9, 30, 90 ppm (0, 0.27, 0.70, and 2.73 mg/kg/day in Males; 0, 0.22, 0.76 and 2.51 mg/kg/day in Females) MRID 47622811	30	.70 / 0.76 (M/F)	90	2.73 / 2.51 (M/F)	Reduced overall body weight gain
Rat – 104-week Chronic Toxicity/ Oncogenicity, 0, 5, 20, 75 and 250 ppm (0, 0.22, 0.85, 3.21 and 10.79 mg/kg/day Males; 0, 0.29, 1.17, 4.40 and 14.68 mg/kg/day in Females)	20	0.85 / 1.17 (M/F)	75	3.2 / 4.4 (M/F)	Higher liver weight (↑13%, F)) and thyroid weight (↑27%/22%; M/F) associated with hepatocellular hypertrophy and thyroid follicular hypertrophy. Higher TSH plasma levels and reduced T4 plasma levels

Table 3 Subchronic, Chronic, and Other Toxicity Profile of Ethiprole						
Type of study Concentrations in feed of doses		**NOEL/NOAEL ppm**	**mg/kg/d**	**LOAEL ppm**	**mg/kg/d**	**Adverse effects at LOAEL and higher dose levels**
MRID 47622813						
Mouse- 78 week Chronic/ Oncogenicity, 0, 10, 50, 150, and 300 ppm (0, 1.7, 8.6, 25.6, 50.8 mg/kg/day in Males; 0, 1.7, 12.5, 36.3, 73.5 mg/kg/day in Females) MRID 47622812		300 (M) 150 (F)	50.8 / 36.3 (M/F)	300 (F)	50.8 / 73.5 (M/F)	Reduced survival rate. Slight increased in the incidence of hepatocellular adenomas (↑12%) in females.
Rat Multi-generation 0, 10, 75, 500 ppm 0, 0.66-0.80, 4.77-6.03, 32.33-39.63 M; 0, 0.78-0.91, 5.82-6.76, 37.36-45.20 mg/kg/day MRID 47622810	Parent	10	0.66/0.78 (M/F)	75	4.77/5.82	Increase liver weight in both P and F1 adults (14% and 16%, respectively).
	Repro	500	32.33/ 37.36 (M/F)	-	-	No effects noted on reproductive Performance.
	Pups	75	4.77/ 5.82 (M/F)	500	32.33/ 37.36	Reduced F1 and F2 pup body weights associated with delays in acquisition of puberty

Table 4 Summary of Reproductive and Developmental Toxicity of Ethiprole				
Type of study Doses	**NO(A)EL (mg/kg/day)**	**LOAEL (mg/kg/day)**	**Adverse effects at LOAEL/ target organs**	
Reproductive toxicity study				
Two- generation rat 0, 10, 75, 500 ppm 0, 0.66-0.80, 4.77-6.03, 32.33-39.63 mg/kg/day Males 0, 0.78-0.91, 5.82-6.76, 37.36-45.20	0.66-0.80 (M) 0.78-0.91 (F)	32.33- 39.63 (M) 37.36 – 45.20 (F)	Parents	Increase liver weight in both P and F1 adults (14% and 16%, respectively).
	32.33- 39.63 (M) 37.36 – 45.20(F)	Not established	Reproduction	No effects noted on reproductive performance
	4.77- 6.03 (M) 5.82 – 6.76 (F)	32.33- 39.63(M) 37.36 – 45.20(F)	Offspring	Reduced F1 and F2 pup body weights associated with delays in acquisition of puberty

Table 4 Summary of Reproductive and Developmental Toxicity of Ethiprole				
Type of study Doses	**NO(A)EL (mg/kg/day)**	**LOAEL (mg/kg/day)**	**Adverse effects at LOAEL/ target organs**	
Females mg/kg/day MRID 47622810				
Developmental toxicity studies				
Developmental toxicity rat, 0, 3, 10, 30 mg/kg/day MRID 47622808	3	30	Dams	Increase mean liver weight (↑15%) and body weight loss (↓43%).
	10	30	Fetus	Enlarged thymus (↑44%) and skeletal variations.
Developmental toxicity rabbit, 0, 0.25, 0.5, 2, 4 mg/kg/day MRID 47622809	0.5	2	Dams	Body weight loss, reduced food consumption, abortions GD 21-28
	0.5	2	Fetus	Incomplete ossification

Table 5 Summary of Neurotoxicity Studies with Ethiprole			
Types of study Doses	**NOAEL mg/kg/day**	**LOAEL mg/kg/day**	**Effects at LOAEL**
Rat acute neurotoxicity, 10, 25, 35 and 250 mg/kg MRID 47622822	10 (F) 35 (M)	25 (F) 250 (M)	Males: increased incidence of animals being slightly awkward to handle, decrease number of animals grooming, increased forelimb and hindlimb grip strength, and decrease locomotor activity (first 10 minutes after dosing. Females: increased incidence of tremors and decrease rear count 4 hours post dosing.
Rat acute neurotoxicity, 100, 500 and 2000 mg/kg MRID 47622821	-	100	Reduced landing foot splay(↓28%/25%; M/F) at FOB and reduced motor activity
Rat subchronic neurotoxicity, 20, 100 and 400 ppm (0, 1.4, 7.2 and 28.7 mg/kg/day in Males; 0, 1.7, 8.4 and 33.0 mg/kg/day in Females) MRID 47622822	Systemic 1.4 /8.4 (M/F) Neurotoxicity 28.7/33.0 (M/F)	Systemic 7.2/33.0 (M/F) Neurotoxicity 28.7/33.0 (M/F)	Systemic: Higher thyroid weight (↑24%) in males and higher thyroid weight (↑35%) and liver weights (↑65%) in females. No FOB changes, no neuropathology

Table 6 Summary of Toxicity Studies with Ethiprole Metabolites			
Types of study Doses	**NOAEL mg/kg/day**	**LOAEL mg/kg/day**	**Effects at LOAEL**
RPA 112916, Rat acute oral toxicity, 2000 and 5000 mg/kg MRID 47622802	LD50 > 5000	-	-
RPA 112916, 28-day oral toxicity 50, 500, 5000 and 10000 ppm MRID 47622805	500 ppm 51.4/53.5 M/F	5000 ppm 515.2/512.4 M/F	Higher prothrombin time, higher liver and thyroid weights associated with histopathological changes
RPA 112916, Ames test Up to 5000 µg/plate	-	-	No increased incidence of revertants - negative response
RPA 097973, Rat acute oral toxicity 2000 mg/kg MRID 47622803	LD50 > 2000	-	-
RPA 097973, Ames test Up to 5000 µg/plate	-	-	No increased incidence of revertants - negative response

Table 7 Summary of *in vitro* and *in vivo* Genotoxicity Studies with Ethiprole			
Study	**Max. Concentration/ Dose Level**	**Purity (%)**	**Results**
Test system *in vitro*			
Salmonella/ microsome test	5000 µg/plate	93%	Negative
Cytogenetic test in mammalian cells	800 µg/ml	93%	Negative
Gene mutation in mammalian cells	500 µg/ml	93%	Negative
Test system *in vivo*			
Mouse micronucleus	2000 mg/kg	93%	Negative
Rat unscheduled DNA synthesis	2000 mg/kg	93%	Negative

Toxicological Endpoints:

Table 8 Summary of Toxicological Doses and Endpoints for Ethiprole for Use in Dietary Human Health Risk Assessments				
Exposure/ Scenario	Point of Departure	Uncertainty /FQPA Safety Factors	RfD, PAD, Level of Concern for Risk Assessment	Study and Toxicological Effects
Acute Dietary (All Populations, including Infants and Children and Females 13-49 years of age)	NOAEL = 35 mg/kg/day	UF_A= 10X UF_H= 10X FQPA SF= 10X	Acute RfD = 0.35 mg/kg/day **aPAD = 0.035 mg/kg/day**	Acute Neurotoxicity (dietary) in rats LOAEL = 250 mg/kg/day, based on increased incidence of animals being slightly awkward to handle, a decrease in the number of animals grooming, increased forelimb and hindlimb grip strength, and decreased locomotor activity (first 10 minutes after dosing)

Table 8	**Summary of Toxicological Doses and Endpoints for Ethiprole for Use in Dietary Human Health Risk Assessments**			
Exposure/ Scenario	Point of Departure	Uncertainty /FQPA Safety Factors	RfD, PAD, Level of Concern for Risk Assessment	Study and Toxicological Effects
Chronic Dietary (All Populations)	NOAEL = 0.85 mg/kg/day	UF_A= 3X UF_H= 10X FQPA SF= 10X	Chronic RfD = 0.03 mg/kg/day **cPAD = 0.003 mg/kg/day**	Combined Chronic/carcinogenicity oral (dietary) toxicity in the rats LOAEL = 3.21/4.40 mg/kg/day M/F, based on observed effects in the thyroid and/ or liver (histopathologic changes, increased organ weights, and/ or altered thyroid hormone or bilirubin levels).
Cancer (oral, dermal, inhalation)	Ethiprole is classified as "Suggestive Evidence of Carcinogenicity, but Not Sufficient to Assess Human Carcinogenicity Potential," based on the increased incidences of hepatocellular adenomas in females at the highest dose tested in the carcinogenicity study in mice. There is no concern for mutagenicity and clastogenicity. In addition, based on the available toxicity studies, ethiprole is neither a reproductive nor a developmental toxicant.			

Point of Departure (POD) = A data point or an estimated point that is derived from observed dose-response data and used to mark the beginning of extrapolation to determine risk associated with lower environmentally relevant human exposures. NOAEL = no observed adverse effect level. LOAEL = lowest observed adverse effect level. UF = uncertainty factor. UF_A = extrapolation from animal to human (interspecies). UF_H = potential variation in sensitivity among members of the human population (intraspecies). UF_L = use of a LOAEL to extrapolate a NOAEL. UF_S = use of a short-term study for long-term risk assessment. UF_{DB} = to account for the absence of key date (i.e., lack of a critical study). FQPA SF = FQPA Safety Factor. PAD = population adjusted dose (a = acute, c = chronic). RfD = reference dose. MOE = margin of exposure. LOC = level of concern. N/A = not applicable.

Food Quality Protection Act Considerations:

FQPA Safety Factor: The EPA selected endpoints for risk assessment and evaluated the potential for increased susceptibility of infants and children from exposure to ethiprole. Based on the hazard and exposure data, the Agency is retaining the 10x FQPA SF due to the lack of a developmental thyroid toxicity study in rats. Hormonal changes (decreased T4 plasma levels, increased thyroid stimulating hormone (TSH) plasma levels and alteration in thyroid weights) were observed in several adult toxicity studies following oral administration of ethiprole. Therefore, there is concern that perturbation of thyroid homeostasis may lead to hypothyroidism, which could possibly result in adverse effects on the developing nervous system. Since the developmental and reproductive studies do not assess the thyroid in the developing animals, EPA has required that a developmental thyroid assay be conducted to evaluate the impact of ethiprole on thyroid hormones, structure, and/or thyroid hormone homeostasis during development, based on the following:

- The toxicological database for ethiprole is complete with the exception of a developmental thyroid toxicity study in juvenile rats, which is needed to address potential prenatal and perinatal thyroid toxicity. Thyroid toxicity was noted throughout the toxicological database; however, the thyroid toxicity was assessed in adult animals only. EPA evaluated the available toxicity data (including an immunotoxicity study in the rat) to evaluate the hazard potential of ethiprole and has determined that retention of the FQPA SF accounts for the lack of a

developmental thyroid toxicity study in juvenile rats.

- A developmental neurotoxicity (DNT) study is not required for ethiprole. In view of the fact that thyroid toxicity appears to be the most sensitive endpoint, and thyroid hormones play a critical role in the development of the nervous system, the Agency is requiring the developmental thyroid toxicity study *in lieu* of the DNT. As a result, there is no need for additional UFs to account for neurotoxicity.
- There is no evidence that ethiprole results in increased susceptibility in *in utero* rats or rabbits in the prenatal developmental studies, or in young rats in the 2–generation reproduction study.
- There are no residual uncertainties in the exposure database for ethiprole. Acute and chronic dietary (food only) exposure assessments were conducted, assuming tolerance-level residues, empirical processing factors, and 100% CT for all commodities. Since the dietary exposure estimates were based on several conservative assumptions, the Agency does not believe that the exposure/risk estimates will be underestimated.

Exposure Assessment:

Dietary Exposure Assessment: Unrefined acute and chronic dietary (food only) exposure assessments were conducted for the general U.S. population and various population subgroups assuming that 100% of crops with the requested uses of ethiprole were treated and that all treated crops contained residues at tolerance-level residues. In addition, empirical processing factors were assumed for the requested crop uses. As there are no proposed domestic uses of ethiprole, drinking water was not incorporated into the dietary exposure assessments. The acute dietary exposure estimates for food only are below the Agency's level of concern (<100% of the aPAD), at the 95th exposure percentile for the general U.S. population (4% aPAD) and all other population subgroups. The most highly-exposed population subgroup is all infants (<1 year old) at 14% aPAD. The chronic dietary exposure estimates for food only are below the Agency's level of concern (<100% cPAD) for the general U.S. population (22% cPAD) and all population subgroups. The most highly-exposed population subgroup is all infants (<1 year old) at 42% cPAD.

Table 9 Summary of Dietary (Food Only) Exposure and Risk for Ethiprole.

Population Subgroup	Acute Dietary (95th% Percentile)		Chronic Dietary		Cancer	
	Dietary Exposure (mg/kg/day)	% aPAD	Dietary Exposure (mg/kg/day)	% cPAD	Dietary Exposure (mg/kg/day)	Risk
General U.S. Population	0.001387	4	0.000647	22	N/A	N/A

Table 9 Summary of Dietary (Food Only) Exposure and Risk for Ethiprole.						
Population Subgroup	Acute Dietary (95th% Percentile)		Chronic Dietary		Cancer	
	Dietary Exposure (mg/kg/day)	% aPAD	Dietary Exposure (mg/kg/day)	% cPAD	Dietary Exposure (mg/kg/day)	Risk
All Infants (< 1 year old)	**0.004814**	**14**	**0.001272**	**42**		
Children 1-2 years old	0.002487	7	0.001096	37		
Children 3-5 years old	0.002276	7	0.000964	32		
Children 6-12 years old	0.001602	5	0.000700	23		
Youth 13-19 years old	0.001195	3	0.000567	19		
Adults 20-49 years old	0.001359	4	0.000675	23		
Adults 50+ years old	0.001106	3	0.000459	15		
Females 13-49 years old	0.001340	4	0.000573	19		
aPAD= 0.035 mg/kg/day; cPAD= 0.003 mg/kg/day						

Water Exposure/Risk Pathway

As there are currently no registered or proposed domestic uses for ethiprole, a drinking water assessment was not conducted.

Residential (Non-Occupational) Exposure/Risk Pathway

As there are currently no registered or proposed residential uses for ethiprole, a residential (non-occupational) exposure assessment was not conducted.

Occupational Exposure/Risk Pathway

As there are currently no registered or proposed domestic uses for ethiprole, an occupational exposure risk assessment was not conducted.

CONTACT PERSON AT EPA

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Appendix I Citations Considered Part of the Data Base Supporting the Establishment of Ethiprole Import Tolerances.

MRID	Citation	Receipt Date
47622701	Bascou, J. (2009) Product Composition of Technical Material (Ethiprole - AE 0316423). Project Number: M/258280/02/2, M258280/02/2/OCR, 05824507. Unpublished study prepared by Bayer Cropscience SA Development. 8 p.	24-Mar-2009
47622702	Bascou, J. (2009) Ethiprole: Manufacturing Process (Source: HVS) of the Technical Active Substance for Chinese Registration. Project Number: M/327147/01/2, M327147/01/2/OCR, G201985. Unpublished study prepared by Bayer Cropscience SA. 64 p.	24-Mar-2009
47622703	Bascou, J. (2008) Product Specification - Manufacturing Procedure: Ethiprole 100 SC. Project Number: M/277099/01/2, M277099/01/2/OCR. Unpublished study prepared by Bayer Cropscience. 10 p.	24-Mar-2009
47622704	Straub, J. (2008) Document H: Safety Data Sheets for the Formulants of Ethiprole SC 100 (100 g/L). Project Number: M/327851/01/1, M327851/01/1/OCR. Unpublished study prepared by Bayer CropScience. 71 p.	24-Mar-2009
47622705	Haack, K. (2008) Ethiprole Technical Material: Discussion of the Formation of Impurities in Ethiprole Technical Material Manufactured. Project Number: M/302041/01/2, M302041/01/2/OCR, G201984. Unpublished study prepared by Bayer CropScience. 11 p.	24-Mar-2009
47622706	Cichy, M.; Gerhardt, B. (2005) Material Accountability of AE 0316423 / RP107382 (Ethiprole): Analytical Profile of Production Batches from HVS. Project Number: M/255405/01/2, PA05/060, M/255405/01/OCR. Unpublished study prepared by Bayer Cropscience Gmbh. 55 p.	24-Mar-2009
47622707	Emeric, G. (1999) Technical Ethiprole: HPLC Determination of Active Ingredient. Project Number: M/191957/01/2, R/D/CRLD/AN/9916325, M/191957/01/2OCR. Unpublished study prepared by Rhone-Poulenc Agro. 14 p.	24-Mar-2009
47622708	Emeric, G. (1999) Technical Ethiprole: HPLC Determination of Main Impurities. Project Number: M/191961/01/2, R/D/CRLD/AN/9916326, M/191961/01/2/OCR. Unpublished study prepared by Rhone-Poulenc Agro. 31 p.	24-Mar-2009

MRID	Citation	Receipt Date
47622709	Emeric, G. (1999) Technical Ethiprole: GC Determination of an Impurity. Project Number: M/191953/01/2, R/D/CRLD/AN/9916327, M/191953/01/2/OCR. Unpublished study prepared by Rhone-Poulenc Agro. 17 p.	24-Mar-2009
47622710	Bascou, J. (2000) Ethiprole: Physical Characteristics. Project Number: M/191984/01/2, R/D/CRLD/AN/9916755, 98/50/PART/A. Unpublished study prepared by Aventis Cropscience, Centre de Recherche de La Dargoire. 22 p.	24-Mar-2009
47622711	Phong, J. (1999) Ethiprole - Determination of the Explosion Properties, Flammability, Ability for Self Heating and Oxidising Properties. Project Number: M/191945/01/2, 99/296/SEC, 99/163. Unpublished study prepared by Rhone-Poulenc Industries. 16 p.	24-Mar-2009
47622712	Bascou, J. (2001) Ethiprole: pH and Dissociation Constant. Project Number: M/191482/01/2, R/D/CRLD/AN/9916756, 98/50/PART/B. Unpublished study prepared by Aventis Cropscience, Centre de Recherche de La Dargoire. 17 p.	24-Mar-2009
47622713	Just, D.; Vidal, J.; Zinini, N.; et al. (1999) Ethiprole: NMR, IR, MS and UV-Visible Spectra. Project Number: M/192500/01/2, R/D/CRLD/AN/9915184, 99/09. Unpublished study prepared by Rhone-Poulenc Agro. 31 p.	24-Mar-2009
47622714	Bascou, J. (2000) N-Octanol / Water Partition Coefficient: Ethiprole. Project Number: M/191980/01/2, R/D/CRLD/AN/9916738, M/191980/01/2/0CR. Unpublished study prepared by Rhone-Poulenc Agrochemie. 18 p.	24-Mar-2009
47622715	Bascou, J. (2001) Ethiprole: Water and Solven Solubility. Project Number: M/202032/01/2, R/D/CRLD/AN/9916757, 98/50/PART/C. Unpublished study prepared by Aventis Cropscience, Centre de Recherche de La Dargoire. 31 p.	24-Mar-2009
47622716	Bascou, J. (2001) Ethiprole: Vapor Pressure. Project Number: M/191486/01/2, R/D/CRLD/AN/9916759, 98/50/PART/F. Unpublished study prepared by Aventis Cropscience, Centre de Recherche de La Dargoire. 38 p.	24-Mar-2009
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