

Evaluation Report for Category A, Subcategory 1.3 Application

Application Number:	2007-4677
Application:	New Active Ingredient – Maximum Residue Limits (MRLs) Only
Product:	Fluopicolide Technical Fungicide
Active ingredients (a.i.):	Fluopicolide (FLC)
PMRA Document Number	: 1917173

Purpose of Application

The purpose of this application was to establish maximum residue limits (MRL) to cover residues of fluopicolide in/on brassica (head and stem) vegetables (crop group 5A), root and tuber vegetables (crop group 1), bulb vegetables (crop group 3), cucurbit vegetables (crop group 9), fruiting vegetables (crop group 8), leafy vegetables (crop group 4) and grapes.

Chemistry Assessment

The chemical properties of the fluopicolide technical active ingredient, Fluopicolide Technical Fungicide and the fluopicolide-containing end-use product V-10161 4 SC Fungicide are presented in the tables below.



Identity of the Active Ingre	edient
Active substance	Fluopicolide

Function

Fungicide

Chemical name

- 1. International Union of Pure2,6-Dichloro-N-{[3-chloro-5-(trifluoromethyl)pyridin-2and Applied Chemistryyl]methyl}benzamide (IUPAC)
- 2. Chemical Abstracts Service2,6-Dichloro-N-{[3-chloro-5-(trifluoromethyl)-2-(CAS) pyridinyl]methyl}benzamide

Molecular formula C₁₄H₈Cl₃F₃N₂O

Molecular weight 383.58

Structural formula



Purity of the active ingredient 98.8%

Physical and Chemical Properties of Fluopicolide Technical Fungicide

Property	Result			
Colour and physical state	Beige solid			
Odour	Odourless			
Melting range	149°C (135-165°C)			
Boiling point or range	Not available			
Specific gravity at 4°C	1.65			
Vapour pressure at 20°C	3.03 x 10 ⁻⁷ Pa (extrap	olated)		
Ultraviolet (UV)-visible spectrum	$\lambda = 203, 270, 290 \text{ nm}$	$\lambda_{\rm max} =$	290 nm	
Solubility in water at 20°C	3.02 mg/L			
Solubility in organic solvents at	<u>Solvent</u>		<u>Solubility (g/L)</u>	
20°C	ethanol	19.2		
	n-hexane	0.20		
	toluene	20.5		
	dichloromethane		126	
	acetone		74.7	
	ethylacetate	37.7		
	diemthyl sulfoxide	183		

n-Octanol-water	partition	pН	<u>log Ko</u>	W						
coefficient (K_{OW})		4.0	2.9							
		7.3	2.9							
		9.1	2.9							
Dissociation constant ((pK_a)	Not availa	ble							
Stability		Stable at	54°C for	14	days	in	presence	of	aluminum	or
(temperature, metal)		aluminum	acetate.							

Physical and Chemical Properties of the End-Use Product V-10161 4 SC Fungicide

Property	Result
Colour	Beige
Odour	Not available
Physical state	Liquid
Formulation type	SU (suspension)
Guarantee	39.5%
Container material and description	20 to 1000 kg, bulk, plastic, polyethylene totes
Density	1.21 g/mL at 20°C
pH of 1% dispersion in water	6.6
Oxidizing or reducing action	No chemical incompatibility if the test item comes in contact with reducing (zinc powder) or oxidizing (ammonium nitrate) agents.
Storage stability	Stable in HDPE white opaque can for at least three years at ambient temperature
Corrosion characteristics	The HDPE white opaque can shows no negative interactions with the formulation for at least three years at ambient temperature.
Explodability	The product does not present a danger of explosion under the thermal sensitivity and shock tests.

The methods provided for the analysis of the active ingredient and the impurities in Fluopicolide Technical Fungicide have been validated and assessed to be acceptable for the determinations. The method provided for the analysis of the active ingredient in the formulation has been validated and assessed to be acceptable for use as an enforcement analytical method.

Health Assessments

Toxicology Summary

The PMRA conducted a detailed review of the toxicological database for fluopicolide. The database is complete, consisting of the full array of laboratory animal (*in vivo*) and cell culture (*in vitro*) toxicity studies currently required for hazard assessment purposes. The studies were

carried out in accordance with currently accepted international testing protocols and Good Laboratory Practices. The scientific quality of the data is high and the database is considered adequate to define the majority of the toxic effects that may result from exposure to this chemical.

Following acute oral exposure, Fluopicolide Technical Fungicide as well as V-10161 4 SC Fungicide were of low toxicity by the oral route of exposure in rats.

After oral dosing in rats of fluopicolide, absorption averaged 62% in both sexes and was moderately rapid with T_{max} in blood of 6-8 hours. The majority (95%) of the test material was eliminated within 48 hours in the faeces (~80%) with the rest being eliminated in the urine $(\sim 20\%)$. No significant concentrations of radiolabel were recovered in the expired air. The mean $t_{1/2}$ in plasma was approximately 14 hours. Biliary excretion was important with more than half of the administered dose (AD) being excreted as biliary fraction. Toxicokinetics were not significantly influenced by dose, dosage regime or gender. The area under the curve (AUC) was not proportional to dosing, as the AUC increased by approximately 5-fold after a 10-fold increase in dosage. Fluopicolide was distributed in all organs and tissues. The highest concentrations were found in the main target organs: the liver, kidneys and intestines. There was no evidence of bioaccumulation. The test material was rapidly and extensively metabolized. None of the radioactivity detected in the urine was associated with the parent compound. The greatest amount of radioactivity recovered in the faeces of rats was attributed to the parent compound. The major metabolites were identified as oxidative N-dealkylation cleavage products. Many of the metabolites were the products of hydroxylation, hydrolysis, dealkylation, glucuronidation, sulfation, or glutathione conjugation.

Additional data were provided by the registrant regarding four metabolites/impurities that can be present in plants and/or mammals. AE 1344122, AE C653711 (2,6-dichlorobenzamide [BAM]), AE C657378 (metabolite of BAM) and AE C657188 (3-chloro-5-(trifluoromethyl)pyridine-2-carboxylic acid [PCA]) were evaluated for metabolism (BAM and PCA), acute toxicity, short-term toxicity (AE 1344122 and AE C657378) and genotoxic potential. With the exception of BAM, which was moderately acutely toxic, all of the other tested compounds were considered equally or less toxic than fluopicolide. All of the compounds were considered negative for genotoxicity.

After repeated dietary dosing with fluopicolide, the key treatment-related effects were decreased body weight/gains and liver effects across the species tested (mice, rats and dogs) and kidney effects in rats. The liver effects seen in all species seemed to reflect an adaptive response and consisted mainly of increased liver weights and centrilobular hepatocyte hypertrophy. The kidney effects in the rat were numerous with renal tubular eosinophilic proteinaceous material, granulation, hydronephrosis, hyaline droplets in the proximal tubules, single cell death in the proximal tubule epithelium, and presence of granular casts. The adverse effects observed during a 90-day dosing period in rats were similar to those noted during a 4-week treatment of rats with

the exception of hypertrophy of *zona glomerulosa* of the adrenals and trabecular hyperostosis of the bone joint in female rats over a longer period of exposure. Overall, rats were more sensitive to fluopicolide-induced toxicity than mice or dogs, and males were more sensitive than females.

The weight of evidence indicates no genotoxicity potential for fluopicolide when tested in a battery of *in vitro* and *in vivo* genotoxicity assays including reverse mutation assay, gene mutation assay, chromosomal aberration assay, micronucleus assay and unscheduled DNA synthesis.

In an 18-month mouse carcinogenicity study, there were adaptive liver effects (increased liver weight and hepatocyte hypertrophy) starting at the mid-dose and decreased body weight gains and decreased food efficiency at the high dose. There was an increase in the incidence of hepatocellular adenoma in high dose animals when compared with control animals. At this dose, with up to 20% reduction in body weight (45% decreased body weight gain) compared to controls, the maximum tolerable dose (MTD) was considered to have been exceeded. A mechanistic study performed in mice depicts fluopicolide as a potent liver enzyme inducer with a phenobarbital-like profile. Based on the weight of evidence, the increased incidence of hepatocellular adenoma was not considered relevant for the human risk assessment.

In a 2-year combined chronic/carcinogenicity study in rats, the same type of liver and kidney effects as were noted in the short-term studies were observed and were characterized by an increase in the incidence and severity of the effects suggesting that the longer duration of exposure results in greater prevalence of liver and kidney lesions. Along with liver hypertrophy, cystic degeneration, clear foci, and eosinophilic foci in males, blood cholesterol was increased because of the impaired liver function. The kidney effects were more severe at terminal sacrifice when compared to interim sacrifice. They consisted of cortical tubular basophilia with associated degenerative changes, hyaline droplets and tubular casts (males) and hyperplasia of the papillary epithelium (females) associated with mineralization of the papillary/pelvic epithelium (females) and papilla (males). The thyroid was also a target organ in this study with cystic follicular hyperplasia observed in males at the interim sacrifice, with increased severity at the terminal sacrifice. There was no evidence of carcinogenic potential in the rat.

In a 2-generation reproductive toxicity study, F_0 and F_1 parental animals were affected by decreased body weight and body weight gain, along with decreased food consumption. Kidney effects were also present including increased kidney weight in F_0 and F_1 adults, cortical tubular basophilia, medullary granular casts, and cortical scarring in F_0 and F_1 males, interstitial inflammation in F_0 males, and cortical tubular basophilia and dilatation as well as corticomedullary mineralization in F_0 and F_1 females. No treatment-related effects were noted on any of the reproduction parameters up to the highest dose tested. Other than body weight and body weight gain effects in F_1 and F_2 pups at the highest dose tested, there were no treatmentrelated effects observed in the offspring.

In a rat developmental toxicity study, marginal maternal toxicity was observed at the highest dose tested, namely decreased body weight gain. Developmental toxicity was observed at the highest dose tested and consisted of decreased foetal weight, crown/rump length and placental weights. There was also an increased incidence of ossification delays of sacral vertebra, sternebra, 5th metacarpal and 5th metatarsal bones compared to control animals. An increased

incidence of skeletal malformations of the thoracic vertebra and ribs was present, therefore there was evidence of teratogenicity in rats at the highest dose tested in presence of maternal toxicity.

In a rabbit developmental toxicity study, maternal toxicity was observed at the high dose as decreased body weight gains and food consumption, and 3 dams died on gestational days (GD) 24, 25 and 29 following hypoactivity, decreased food consumption and defecation, bristling hair coat and discoloured urine. These deaths were considered treatment-related. Also at the high dose, fifteen dams aborted or delivered prematurely between GD 22 and GD 28 presenting clinical signs similar to the dams that died. One dam from the mid dose group aborted on GD 28 and was subsequently sacrificed. Prior to aborting, this dam showed decreased defecation and hay consumption. The gross pathological observations in most of the dams that aborted included a tautly filled stomach and red fluid in the urinary bladder. Body weight gains were also markedly decreased throughout the treatment period in the high dose group. The reduction in body weight gain correlated with a reduction in food efficiency. Developmental effects included decreased foetal weight and crown-rump length. There was no evidence of teratogenicity at any dose tested in rabbits.

Fluopicolide was not neurotoxic as demonstrated in acute and 90-day neurotoxicity studies in rats. Systemic effects observed in the 90-day study were similar to these observed in other subchronic studies (decreased body weight, body weight gain, and food consumption, and liver and kidney effects). The only treatment-related neurotoxic effect was observed in the acute neurotoxicity study at the limit dose with decreased body temperature at 6 hours post-dosing. Prior to the main study, marginal toxic effects were observed in an acute neurotoxicity range-finding study, but none of them were observed in the main study up to the limit dose with the exemption of decreased body temperature. There were no triggers in the toxicological database to warrant a study to investigate developmental neurotoxicity.

Results of the acute and chronic tests conducted on laboratory animals with Fluopicolide Technical Fungicide and its associated end-use products, along with the toxicology endpoints for use in the human health risk assessment, are summarized in Appendix I, Tables 1, 2, and 5. Results of the acute and chronic tests conducted on laboratory animals with metabolites / impurities of fluopicolide are summarized in Appendix 1, Tables 3 and 4.

For assessing risks from potential residues in food or from products used in or around homes or schools, the *Pest Control Products Act* (PCPA) requires the application of an additional 10-fold factor to threshold effects to take into account completeness of the data and potential prenatal and postnatal toxicity with respect to the exposure of and toxicity to infants and children. A different factor may be determined to be appropriate on the basis of reliable scientific data.

With respect to the completeness of the toxicity database, extensive data were available for fluopicolide including developmental toxicity studies in rats and rabbits and a 2-generation rat reproductive toxicity study.

With respect to effects relevant to the assessment of risk to infants and children, there was no indication of increased susceptibility in the offspring compared to parental animals in the reproduction study and offspring effects were limited to effects on body weight. In the rat developmental toxicity study, malformations were observed at the maternal LOAEL. The

malformations were considered serious endpoints although the concern was tempered by the presence of maternal toxicity (i.e. decreased body weight gain). The maternal toxicity effect was considered marginal, and therefore, increased qualitative susceptibility of the foetus was apparent in the rat. The database for fluopicolide is complete, there were no data deficiencies and a clear NOAEL has been identified for this developmental rat study. On the basis of this information, the PCPA factor was reduced to 3-fold, where the malformations were selected as the endpoint of concern for risk assessment. Furthermore, abortions were observed in dams from the rabbit developmental study at the high dose. The abortions were considered serious endpoints although the concern was tempered by the presence of maternal toxicity (i.e. deaths). The database for fluopicolide is complete, there were no data deficiencies and a clear NOAEL has been identified for this developmental toxicity (i.e. deaths). The database for fluopicolide is complete, there were no data deficiencies and a clear NOAEL has been identified for this developmental rabbit study. On the basis of this information, the PCPA factor was reduced to 3-fold, where the abortions were selected as the endpoint of concern for risk assessment.

An acute reference dose (ARfD) for fluopicolide was not determined for the general population because an endpoint of concern attributable to an acute exposure was not identified in the toxicity studies.

The ARfD for fluopicolide in females aged 13-49 is based on the NOAEL of 60 mg/kg bw/day from the developmental toxicity study in rats based on malformations at the LOAEL of 700 mg/kg bw/day. Uncertainty factors of 10-fold for interspecies extrapolation as well as a 10-fold for intraspecies variability were applied in the setting of the ARfD. As indicated in the PCPA Hazard Characterization section, the PCPA factor was reduced to 3-fold for seriousness of endpoint in presence of maternal toxicity, resulting in a composite assessment factor (CAF) of 300-fold.

The ARfD (females aged 13-49) is calculated according to the following formula:

 $ARfD = \frac{NOAEL}{CAF} = \frac{60 \text{ mg/kg bw}}{300} = 0.2 \text{ mg/kg bw of fluopicolide}$

The recommended acceptable daily intake (ADI) for fluopicolide is based on the NOAEL of 20 mg/kg bw/day from the developmental toxicity study in rabbits based on abortions, deaths and decreased body weight gains at the LOAEL of 60 mg/kg bw/day. Uncertainty factors of 10-fold for interspecies extrapolation as well as a 10-fold for intraspecies variability were applied in the setting of the ADI. As indicated in the PCPA Hazard Characterization section, the PCPA factor was reduced to 3-fold for seriousness of endpoint in the presence of maternal toxicity, resulting in a CAF of 300-fold.

The ADI is calculated according to the following formula:

$$ADI = \frac{NOAEL}{CAF} = \frac{20 \text{ mg/kg bw/day}}{300} = 0.067 \text{ mg/kg bw/day of fluopicolide}$$

Dietary Assessment

The nature of fluopicolide in plants is adequately understood based on the submitted plant metabolism studies on lettuce, grape and potato. The general metabolic pathway in plants involves the cleavage of the bond between the carbon attached to the pyridine ring and the amide nitrogen of the parent compound to give rise to the metabolites BAM and PCA. Based on these studies, the residue definition for fluopicolide in/on plant matrices is outlined in Appendix 1, Table 6.

The analytical methods, using liquid chromatography with dual mass selective detectors (LC-MS/MS), are adequate to quantitate residues of fluopicolide in/on the imported crops. Based on acceptable method validation and independent laboratory validation, these methods are deemed adequate for data gathering and enforcement purposes.

Frozen storage stability of fluopicolide was demonstrated in four diverse matrices for 30 months.

Crop field trials were conducted in NAFTA representative growing regions in the United States of America (U.S.A.) on grapes, head lettuce, leaf lettuce, potatoes, tomatoes, bell peppers, chili peppers, cucumbers, squash and cantaloupes; and in the European Union (E.U.) on grapes alone. Trials were conducted at 0.7-fold maximum U.S.A. label rates, and the E.U. trials on grapes were conducted at 1.0-fold of the Greek Good Agricultural Practices (GAP). Data on grapes, head lettuce, leaf lettuce and potato, as well as the representative crops of crop group 8 (fruiting vegetables) and crop group 9 (cucurbit vegetables) were provided and are summarized in Appendix 1, Table 7.

Processing studies were conducted on grapes and tomatoes. Concentration was only observed in tomato paste (2.7-fold), tomato puree (1.4-fold) and raisins (3.4-fold). However, an MRL will only be required for raisins (4.1 ppm); residues in tomato paste and puree will be covered by the MRL for fruiting vegetables.

Based on the residue data provided, MRLs to cover residues of fluopicolide in/on imported grapes, head and leaf lettuce, tuberous and corm vegetables (except potatoes; crop subgroup 1D), fruiting vegetables (crop group 8), and cucurbit vegetables (crop group 9) will be recommended as shown below. The MRL calculations for fluopicolide are summarized in Appendix 1, Table 8.

Сгор	Proposed MRL (ppm)
Grape	1.4
Fruiting vegetables (crop group 8)	1.6
Cucurbit vegetables (crop group 9)	0.5
Head and Leaf Lettuce	16
Tuberous and Corm vegetables	0.02
(except potatoes; crop group 1D)	
Grape, Raisin	4.1

The basic acute and refined chronic dietary exposure assessments, using consumption estimates coupled with proposed MRLs, median residue values and experimental processing factors, demonstrates that consumption of the above imported crops treated with fluopicolide as per GAP will not pose a concern to human health for any segment of the population, including infants, children and seniors. For a summary of chronic and acute dietary exposure and risk for

fluopicolide, see Appendix 1, Table 9.

Environmental and Value Assessment

Environmental and value assessments are not required for applications to establish import MRLs.

Conclusion

Following the review of all available data, import MRLs have been established in/on grapes (1.4 ppm), head and leaf lettuce (16 ppm), tuberous and corm vegetables (except potatoes; crop subgroup 1D; 0.02 ppm), fruiting vegetables (crop group 8; 1.6 ppm), cucurbit vegetables (crop group 9; 0.5 ppm) and raisins (4.1 ppm). Residues of fluopicolide on the above noted crops will not pose a concern to human health for any segment of the population, including infants, children and seniors.

List of Abbreviations

AD	administered dose
ADI	acceptable daily intake
a.i.	active ingredient
ARfD	acute reference dose
AUC	area under the curve
bw	body weight
BAM	2,6-dichlorobenzamide
BROD	benzoxyresorufin O-debenzylase
CAF	composite assessment factor
CAS	Chemical Abstracts Service
DNA	deoxyribonucleic acid
EU	European Union
F	female
g	gram(s)
GAP	Good Agricultural Practices
GD	gestational day
ha	hectare(s)
HAFT	highest average field trial
IUPAC	International Union of Pure and Applied Chemistry
kg	kilogram(s)
Kow	<i>n</i> -octanol-water partition coefficient
L	litre(s)
LC	liquid chromatography
LC ₅₀	lethal concentration to 50%
LD_{50}	lethal dose to 50%
LOAEL	lowest observed adverse effect level

Μ	male
MAS	maximum average score
mg	milligram(s)
MIS	maximum irritation score
mL	millilitre(s)
MOE	margin of exposure
MRL	Maximum Residue Limit
MS	mass spectrometry
MTD	maximum tolerable dose
NAFTA	North American Free Trade Agreement
nm	nanometre(s)
NOAEL	no observed adverse effect level
Pa	Pascal
PCA	3-chloro-5-(trifluoromethyl)pyridine-2-carboxylic acid
PCPA	Pest Control Product Act
PHI	pre-harvest interval
p <i>K</i> a	dissociation constant
PMRA	Pest Management Regulatory Agency
ppm	parts per million
PROD	pentoxyresorufin O-depentylase
ROLD	repeated oral low dose
SOHD	single oral high dose
SOLD	single oral low dose
t1/2	half-life
Tmax	time after administration of a dose when maximum plasma concentration is reached
UF	uncertainty factor
U.S.A	United States of America
UV	ultraviolet

Appendix I Tables and Figures

Table 1 Acute Toxicity of Fluopicolide and Its Associated End-use Product (V-10161 4 SC Fungicide)

Study Type	Species	Result	Comment	Reference				
Acute Toxicity of Fluopicolide (Technical)								
Oral	Rat	LD ₅₀ >5000 mg/kg bw	Low Toxicity	1446247				
Acute Toxicity of End-Use Product - V-10161 4 SC Fungicide								
Oral	Rat	LD ₅₀ >5000 mg/kg bw	Low Toxicity	1446378,				
				1446379				

a MAS = maximum average score for 24, 48 and 72 hours

b MIS = maximum irritation score

Study Type	Species	Results ^a / Comments	Reference
28-day dietary (supplemental)	Mouse	Effect levels were not established since this study was considered to be supplemental. Treatment-related effects consisted of decreased body weights and body weight gains, increased liver weights with centrilobular hepatocyte hypertrophy.	1446284
28-day dietary	Rat	NOAEL: 17.4/17.9 mg/kg bw/day (M/F) LOAEL: 174/184 mg/kg bw/day (M/F) based on kidney effects: renal tubular eosinophilic proteinaceous material and granulation (M). Decreased body weight gains and food conversion (F).	1446285
28-day dietary (Supplemental; non-guideline)	Dog	Effect levels were not established since this study was considered to be supplemental. Treatment-related effects consisted of increased liver weights and liver hypertrophy, increased cholesterol levels.	1446282
90-day dietary	Mouse	NOAEL:161/207 mg/kg bw/day (M/F) LOAEL: 770/965 mg/kg bw/day (M/F) based on body weight gain effects and liver effects (increased liver weights and centrilobular liver hypertrophy (M+F) and oval cell proliferation (F)	1446264, 1446263
90-day dietary	Mouse	NOAEL: 944 mg/kg bw/day LOAEL was not determined. There were no treatment-related effects.	1446262
90-day dietary	Rat	NOAEL: 7.4/8.4 mg/kg bw/day (M/F) LOAEL: 109/119 mg/kg bw/day (M/F) based on decreased body weights, body weight gains, liver effects (centrilobular hepatocytic hypertrophy, increased activated partial thromboplastin time, increased gamma-glutamy) transferase activity, increased liver weights), and kidney lesions (hyaline droplets in the proximal tubules, single cell death in the proximal tubule epithelium, foci of regenerating tubules, and granular casts) (M). Trabecular hyperostosis of the bone joints, and hypertrophy of the <i>zona glomerulosa</i> of the adrenals (F).	1446261
90-day gavage	Dog	NOAEL: 1000 mg/kg bw/day LOAEL was not determined. There were not treatment-related effects.	1446266

Table 2Toxicity Profile of Technical Fluopicolide

12-month gavage	Dog	NOAEL:300/1000 mg/kg bw/day (M/F)	1446268,
		LOAEL: 1000/not determined mg/kg bw/day	1446269
		(M/F) based on decreased body weight and	l
		body weight gain effects	
Carcinogenicity	Mouse	NOAEL: 64.5 mg/kg bw/day	1446292
(18-month dietary)		LOAEL: 551 mg/kg bw/day based on decreased	ł
		body weights, body weight gains, food	ł
		consumption, and overall food efficiency,	,
		increased liver weights and altered liver cell	l
		foci. Increased incidence of hepatocellular	ſ
		adenoma at the high dose, which exceeded the	
		maximum tolerable dose (MTD). No increase in	ı
		the number of tumour at the mid-dose.	
Chronic/	Rat	NOAEL: 8.4/10.8 mg/kg bw/day (M/F)	1446293,
Carcinogenicity		LOAEL: 31.5/41.0 mg/kg bw/day (M/F) based	1446295
(2-year dietary)		on liver and kidney lesions. Liver lesions	3
		centrilobular hepatocytic hypertrophy, cystic	
		degeneration, clear foci and eosinophilic foci	I
		(M). Kidney lesions included cortical tubular	ſ
		basophilia with hyaline droplets and casts (M)	,
		hyperplasia and mineralization of the papillary	7
		epithelium (F).	
		Not carcinogenic.	
Two-generation	Rat	Effect levels were not established since this	1446299
reproduction		study was considered to be supplemental.	
(supplemental)			
		Parental: treatment-related effects consisted of	f
		decreased body weight gains and food	1
		consumption in F_0 .	
		Offspring toxicity: treatment-related effects	3
		consisted of decreased body weights, body	7
		weight gains and food consumption in F_1	
		Reproductive toxicity: there were no	
		treatment-related effects.	

Two-generation	Rat	Parental toxicity	1446296,
reproduction		NOAEL: 36.4 mg/kg bw/day	1449297,
		LOAEL: 145 mg/kg bw/day based on decreased	1446298,
		body weights and body weight gains in F ₀ and	1446299
		F_1 animals, decreased food consumption in F_1	0
		and F_1 , cortical tubular basophilia, medullary	7
		granular casts, and cortical scarring in F ₀ and F	1
		males, interstitial inflammation in F ₀ kidneys o	f
		males, cortical tubular basophilia and cortica	1
		tubular dilatation in F_0 and F_1 in females	2
		corticomedullary mineralization in F ₀ and F	1
		females.	
		Offspring toxicity	
		NOAEL: 36.4 mg/kg bw/day	
		LOAEL: 145 mg/kg bw/day based on decreased	1
		body weights and body weight gains.	
		Reproductive toxicity	
		NOAEL: 180 mg/kg bw/day	
		LOAEL was not determined. There were no)
		treatment-related effects.	
Developmental	Rat	Effect levels were not established since this	s1446311
toxicity		study was considered to be supplemental.	
(supplemental)			
		Maternal effects: There were no treatment	-
		related effects.	
		Developmental effects: Foetal and litte	r
		incidences of resorptions were markedly	7
		increased at the high dose. One total litter loss	5
		at the high dose.	

Developmental	Rat	Maternal:	1446312
toxicity		NOAEL: 60 mg/kg bw/day	
		LOAEL: 700 mg/kg bw/day based on decreased	
		corrected and not corrected for gravid uterus	
		weights body weight gains during gestational	
		day 7 to 21.	
		Developmental:	
		NOAEL: 60 mg/kg bw/day	
		LOAEL: 700 mg/kg bw/day based on decreased	
		foetal weights and crown/rump length,	
		increased incidences of ossification delays and	
		skeletal malformations compared to control	
		animals.	
		No evidence of increased susceptibility of	
		foetuses compared to adults.	
Developmental	Rabbit	Effect levels were not established since this	1446313
toxicity		study was considered to be supplemental.	
(supplemental)			
		Maternal effects: decreased body weight gains	
		and food efficiency, death and abortion	
		accompanied by impairments of mobility and	
		consciousness, decreased defecation and hay	
		consumption, hyperactivity and discoloured	
		urine.	
Developmental	Rabbit	Maternal:	1446314
toxicity		NOAEL: 20 mg/kg bw/day	
		LOAEL: 60 mg/kg bw/day based on death,	
		abortions and decreased body weight gains	
		Developmental:	
		NOAEL: 20 mg/kg bw/day	
		LOAEL: 60 mg/kg bw/day based on abortions	
		and decreased roetar weights and crown-rump	
		Ichgun. No evidence of increased susceptibility of	
		footuses compared to adults	
Pavarsa gana	Salmonalla	Positive	1446316
mutation assay	typhimurium	rositive	1440310
indianon assay	strains F		
	Coli		
Reverse gene	Salmonella	Negative	1446318
mutation assav	typhimurium	- 105uu 10	1446317
inatation assay	strains F		1110217
	Coli		

Reverse gene	Salmonella	Negative	1446319
mutation assay	typhimurium		
	strains, E.		
	Coli		
Reverse gene	Salmonella	Negative	1446321,
mutation assay	typhimurium		1446320
	strains, E.		
	Coli		
Reverse gene	Salmonella	Negative	1446323,
mutation assay	typhimurium		1446322
	strains, <i>E</i> .		
	Coli		
Gene mutations in	Chinese	Negative	1446327
mammalian cells in	hamster Lung		
vitro	Cells		
In vitro	Rat	Negative	1446335
unscheduled DNA	hepatocytes		
synthesis	-1		
In vitro mammalian	Chinese	Positive	1446325
chromosomal	hamster Lung		1110020
aberration	Cells		
In vitro mammalian	Human	Negative	1446326
chromosomal	lymphocytes	(Ban / C	1110520
aberration	i j inpilo e j tes		
In vivo mammalian	Mouse	Fauivocal	1446333
cytogenetics	1110450	Equivolui	1110555
In vivo mammalian	Mouse	Negative	1446334
cytogenetics	1110450	(Gaulto	1110551
In vivo mammalian	Mouse	Negative	1446336
cytogenetics	1110450	1 (oguitto	1110550
A cute neurotoxicity	Rat	Effect levels were not established since this	1446307
(supplemental)	ixat	study was considered to be supplemental	1446306
(supprementar)		study was considered to be suppremental.	1110500
		Systemic effect: hunched posture partial	
		nalpebral closure tremor during handling	
		decreased arousal decreased activity	
		accreated arousar, accreated activity.	
		Neurotoxicity: decreased body temperature at	
		the mid-high and highest dose tested	
	1		

Acute neurotoxicity	Rat	Systemic: NOAEL: 2000 mg/kg bw LOAEL was not determined. There were no treatment-related effects.	1446302, 1446301
		Neutoxicity:	
		NOAEL: 100 mg/kg bw	
		LOAEL: 2000 mg/kg bw based on decreased	
		body temperature.	
90-day	Rat	Systemic:	1446304,
neurotoxicity		NOAEL: 15 mg/kg bw/day	1446303,
		LOAEL: 107 mg/kg bw/day based on decreased	1446308
		body weights, body weight gains and food	
		efficiency, and kidney effects (centrilobular	
		hepatocytic hypertrophy, cortical tubules with	
		hyaline droplets and associated inflammation,	
		medullar casts and tubular dilatation).	
		Neutoxicity:	
		NOAEL: 781 mg/kg bw/day	
		LOAEL was not determined. There were no	
		treatment-related effects.	

Matabolism	Absorption, Elucationalide was readily absorbed 11/16216
	Absorption and available not
	Absorption and excretory patterns and noti1440347,
	exhibit gender-related variability, but 1446348,
	blood/plasma kinetic studies suggest near-1446349,
	saturation of absorption at the high dose (1001446350,
	mg/mg bw). Absorption was estimated to be1446351,
	59.0% for males and 64.0% for females. 1446352,
	1446353,
	Distribution: Fluopicolide was distributed in 1446355,
	all organs and tissues and its metabolites do not 1446356,
	appear to undergo any significant tissue 1446357,
	sequestration. With the exception of transiently 1446358,
	higher levels in the liver, kidneys, and intestines 1446359,
	during the elimination phase, radioactivity1446360,
	concentrations in any given tissue consistently 1446361
	represented <1% of the administered dose1446362
	within 24 hours of administration of $\Delta F 1446363$
	C638206
	Evention Eccel elimination accounted for 1446366
	EXCretion: Faecal elimination accounted for 1440300 ,
	68.8% to $72.3%$ of the AD, whereas urinary 1440307,
	excretion for 18.8% to 21.4% of the AD in both 1446369,
	sexes. Bile excretion studies confirmed that 1446370,
	51.7% of the AD in both sexes was excreted in 1446371,
	duct bile duct with a possible entero-hepatic 1446372
	circulation. The majority of the radioactivity
	was almost entirely dissipated within 48 hours
	followed by a slower biphasic elimination
	phase. The mean $t_{1/2}$ in plasma was ~14 hours
	following elimination of a major portion of the
	AD at 48 hours. There were no significant sex
	differences. A 10-fold increase of the dose
	resulted in an AUC ~5-fold higher rather than
	being 10-fold
	Metabolism: Fluonicolide was extensively
	metabolized. The parent compound was absent
	from urine samples but present in faecal
	samples (11% at SOLD 81% at SOLD 26% at
	Samples (11% at SOLD, 81% at SOHD, 50% at DOLD). The major metabolites identified were
	KOLD). The major metabolites identified were
	oxidative in-dealkylation cleavage products.
	Utner identified metabolites were sulfate
	conjugates, aglycones of glucuronide
	conjugates, one was an aglycone for both
	sulfate and glucuronide conjugate, some
	fractions contained both sulfate and glucuronide
	conjugates, and other stable fractions were
	aglycones of a sulfate conjugate.

PECIAL STUDIES				
Study Type	Species	Results ^a / Comments	Reference	
28-day dietary (supplemental mechanistic study)	Mouse	Effect levels were not established since this study was conducted to determine the potential liver changes caused by fluopicolide in mice and, therefore was considered to be supplemental. Treatment-related effects consisted of decreased body weights, body weight gains, and food consumption, increased liver weights with microscopic diffuse, perilobular to panlobular hepatocellular hypertrophy accompanied by decreased vacuaolation. There was an increased hepatocellular proliferation, increased total cytochrome P-450 with increased activities of microsomal benzoxyresorufin O-debenzylase (BROD) and pentoxyresorufin O-depentylase (PROD). Changes similar to those resulting	1446283	
		nom acament with phenobalonal.		

a Effects observed in males as well as females unless otherwise reported

|--|

Study Type	Species	Result	Comment	Reference	
Acute Toxicity of A	E 1344122 (plant m	netabolite)	-	-	
Oral	Rat	LD ₅₀ >5000 mg/kg bw	Low Toxicity	1446249	
Acute Toxicity of A	E C653711 (BAM,	impurity/metabolite)			
Oral	Rat	LC_{50} c = 2000 mg/kg	Moderately	1446251	
		bw ♀= 500 mg/kg bw	Toxicity		
			WARNING-		
			POISON		
Acute Toxicity of AE C657378 (metabolite of BAM)					
Oral	Rat	LD ₅₀ >5000 mg/kg bw	Low Toxicity	1446250	
Acute Toxicity of AE C657188 (PCA, rat/plant metabolite)					
Oral	Rat	2000 mg/kg bw < LD ₅₀	Low Toxicity	1446248	
		< 4000 mg/kg bw			

Study Type	Species	Results ^a / Comments	Reference
SHORT TERM TO	DXICITY – A	E 1344122 (plant metabolite)	
28-day dietary	Rat	NOAEL: 152 mg/kg bw/day	1446291
		LOAEL: 1495 mg/kg bw/day based on	
		decreased body weights and body weight gains,	
		increased urinary volume and granular casts,	
		tubular degeneration/regeneration and single	
		cell necrosis	
GENOTOXICITY	– AE 1344122	2 (plant metabolite)	
Reverse gene	Salmonella	Negative	1446338
mutation assay	typhimurium		
	strains		
Gene mutations in	Chinese	Negative	1446329
mammalian cells in	hamster Lung		
vitro	Cells		
GENOTOXICITY	<u>– C653711 (B</u>	AM, impurity/metabolite)	
Reverse gene	Salmonella	Negative	1446328
mutation assay	typhimurium		
	strains		
Reverse gene	Salmonella	Negative	1446340
mutation assay	typhimurium		
	strains		
Gene mutations in	Chinese	Negative	1446330
mammalian cells in	hamster Lung		
vitro	Cells		
SHORT TERM TO	DXICITY – A	E C657378 (metabolite of BAM)	
28-day dietary	Rat	NOAEL: 159 mg/kg bw/day	1446289
		LOAEL: 1775 mg/kg bw/day based on	
		decreased body weight and body weight gain,	
		cytoplasmic changes in periportal hepatocytes	
		accompanied by reduction in periportally stored	
		fat, increased cholesterol, increased kidney	
		weight and increased incidences and severity of	
		basophilic cortical tubules, and decreased urine	
		volume, alteration of the thyroid follicular	
		colloid and flattening of the epithelium of the	
		peripherally located follicles.	
GENOTOXICITY	<u>– AE C65737</u>	8 (metabolite of BAM)	
Reverse gene	Salmonella	Negative	1446339
mutation assay	typhimurium		
	strains		
Gene mutations in	Chinese	Negative	1446331
mammalian cells in	hamster Lung		
vitro	Cells		

 Table 4.
 Toxicity Profile of Metabolites/Impurities of Fluopicolide

In vitro	Rat	Negative	1446332
unscheduled DNA	hepatocytes		
synthesis			
In vitro mammalian	Human	Positive	1446344
chromosomal	lymphocytes		
aberration			
In vivo mammalian	Mouse	Negative	1446345
cytogenetics			
GENOTOXICITY	- AE C65718	8 (PCA, rat/plant metabolite)	
Reverse gene	Salmonella	Negative	1446324
mutation assay	typhimurium		
	strains, E.		
	coli		
Gene mutations in	Chinese	Negative	1446341
mammalian cells in	hamster Lung		
vitro	Cells		
In vitro mammalian	Human	Negative	1446342
chromosomal	lymphocytes		
aberration			
METABOLISM – A	AE C657188 ((PCA, rat/plant metabolite)	
Metabolism		Absorption: From the urine and cage wash	1446377
(supplemental)		recovered at 24 hours post-dosing (87% of AD),	
		it was assumed that PCA was absorbed quickly	
		and was highly bioavailable.	
		Distribution: Only the residual carcass and	
		skin and fur retained detectable radioactivity	
		Excretion: Most of the AD was excreted in the	
		urine within the first 24 hours (~75%).	
		Metabolism: The parent compound was the	
		only significant radioactive peak was detected	
		in both urine (74-79%) and faecal (5.2-7.0%).	
METABOLISM - A	AE C653711 ((BAM, impurity/metabolite)	

reason reason and reason reasons and reasons	,
male and females rats as patterns for absorption	1446375.
distribution metabolism and elimination of the	1446376
test substance were similar	1110270
Distribution: At the SOLD, the highest	
concentrations were found in kidneys and liver.	
in the skin and fur kidneys and liver. In the	
ROLD the highest concentrations were noted in	
the skin and fur kidneys liver and adrenal. The	
amount of radioactivity present in tissues at 6-7	
days post-dosing was low (1-2% of the AD) No	
significant metabolism differences were noted	
regarding the dose levels and repeated	
administration.	
Excretion: The major route of elimination was	
urinary for the three protocols tested (53-84%),	
while the rest was eliminated via the faeces (12-	
19%). Elimination of the majority of the	
radioactivity recovered occurred during the first	
72 hours post-dosing at the SOLD or on Day 10	
after the last dose in the ROLD. During the	
repeat dose study, elimination by the urine was	
decreased in favour of faecal elimination.	
Metabolism: The major metabolites identified	
in urine samples of all doses tested were the	
unchanged parent (8-18%), mercapturic acid	
conjugate of hydroxychlorobenzamide (16-	
26%), cysteine conjugate of hydroxyl-	
cholorobenzamide (2-12%), and cysteine and	
O-glucuronide conjugate of chlorobenzamide	
(3-7%). In the faecal samples, except for the	
single high dose study in which AE C657378	
$(\sim 5\%)$ was present, the only major metabolite	
identified was the unchanged parent (4-10%).	

Effects observed in males as well as females unless otherwise reported

Table 5	I OXICOLOGY EI	apoints for Use	in Health Kisk Assessment for Fluopi	conae
Exposure	Dose	Study	Endpoint	UF/CAF ¹
Scenario	(mg/kg			or
	bw/day)			Target
				MOE ²
Acute dietary,	NOAEL = 60	Rat	Skeletal malformations at maternally	300
females aged		developmental	toxic dose	
13+		toxicity study		
	ARfD = 0.2 m	g/kg bw		
Chronic	NOAEL = 20	Rabbit	Deaths, abortions, and decreased body	300
Dietary		developmental	weight gains in the dams	
		toxicity study		
	ADI = 0.067 n	ng/kg bw/day		
Short-term	Not needed at	this time		
Dermal				
Intermediate-	Not needed at	this time		
term Dermal				
1				

Table 5 Т --: \mathbf{T} a d f. n T I a in II. alth Diale A t for Fl • alid

¹ Dietary scenarios ² Exposure scenarios

Table 6	Summary	y of Residue	Definition	n for Fluo	picolide

Matrix		Dietary Exposure	Enforcement
		Assessment	
Plants	TuberousandCormvegetables (based on potato)	Parent, BAM, PCA	Parent Only
	All other primary crops	Parent, BAM	Parent Only

Table 7	Summary of fluopicolide Residue Data from Crop F	ield Trials*
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Commodi	Formulatio	Total	PHI ¹			Residue	Levels (p	opm)	
ty	n	Rate (g	(days)	n	Min.	Max.	HAFT	Media	Std.
		a.i./ha)					2	n	Dev.
Fruiting	vegetables (c	rop group	8) - U.S	.A. lab	el rate:	: 403-560	g a.i./ha	/season;	PHI = 2
			-	days					
Tomato	40% SC	399-413	2	24	0.02	0.42	0.38	0.15	0.09
Bell	0.48 kg	201 /01	2	14	0.04	0.56	0.52	0.10	0.16
pepper	a.i./L SC	J91 - 401	2	14	0.04	0.50	0.52	0.10	0.10
Chili	40% SC	398-407	2	6	0.08	0.58	0.52	0.30	0.20
pepper	4070 SC	570-407	2	0	0.00	0.58	0.52	0.50	0.20
Cucurbit	vegetables (c	rop group	9) - U.S	5.A. lal	bel rate	: 403-56) g a.i./ha	a/season;	PHI = 2
	days								
Cantalou	40% SC	305 106	2	18	< 0.0	0.26	0 18	0.06	0.06
pe	TU/0 SC	595-400	2	10	1	0.20	0.10	0.00	0.00

Summer Squash	40% SC	399-411	2	12	0.01	0.05	0.04	0.03	0.01
Cucumbe r	40% SC	391-405	2	12	<0.0 1	0.06	0.05	0.02	0.01
	Grape - U	S.A. label	rate: 40.	3-560 g	g a.i./ha	/season;	$\mathbf{PHI} = 21$	l days	
	(Greece labe	el rate: 3	96 g a	.i./ha/se	ason; PH	$\mathbf{H} = 28 \mathbf{d}$	ays	
Grape (US)	40% SC	387-449	20-21	32	0.07	1.10	0.99	0.21	0.29
Grape (EU)	95 g/L EC	386-413	20-22	16	0.11	1.20	1.20	0.39	0.30
Grape (US+EU)	40% SC + 95 g/L EC	386-449	20-22	48	0.07	1.20	1.20	0.24	0.30
Head	and leaf lett	uce - U.S.	A. label	rate: 4	03-560	g a.i./ha/	/season; l	PHI = 2	days
Head	0.48 kg	392-414	2	14	0.46	7.15	6.34	2.39	2.06
Lettuce	a.i./L SC								
Leaf Lettuce	40% SC	391-408	2	14	0.44	11.7	9.78	6.43	2.96
Tuberous	and Corm v	egetables (except p	otato)	(crop g	roup 1D) - U.S.A	A. label :	rate: 403-
		560 g	a.i./ha/s	eason;	PHI =	7 days			
Potato (extende d to sweet	40% SC	392-417	6-8	38	<0.0 1	0.02	<0.01	<0.01	0.01
potato)									

¹ Pre-harvest Interval

² Highest Average Field Trial

*The U.S.A. field trials were conducted with a use pattern of 3 applications, yet the use pattern on the registered U.S.A. label allows for a fourth application to these crops. Hence the use pattern from the field trials accounted for 0.7-fold the U.S.A. GAP. The recommended MRLs are expected to encompass any anticipated residues from a fourth application of the product, since the recommended MRLs are higher than the maximum residues from the crop field trials.

The E.U. grape field trials were conducted with a use pattern of 3 applications and 20-22 day PHIs. These PHIs are shorter than the 28 day PHI on the registered Greek label. Residues in grapes from the crop field trials are thus expected to be higher than the residues in grapes treated according to the Greek GAP. Therefore the recommended MRL for grapes is expected to encompass the residues in grapes treated according to the Greek GAP.

I able o	riuopiconae	WIKL Calcu	nations				
Crop	Formulation	Rate	PHI	n	MRL	U.S.	Proposed
		(g a.i./ha)			Calc.	Tolerance	MRL (ppm)
					(ppm)	(ppm)	
Grape	40% SC + 95	386-449	20-22	48	1.4	2.0	1.4
	g/L EC						
Tomato	40% SC	399-413	2	24	0.7	Fruiting	Fruiting
Bell	0.48 kg a.i./L	391-401	2	14	0.6	vegetables	vegetables
Pepper	SC					(CG 8)	(CG 8)
Chili	40% SC	398-407	2	6	1.6		
Pepper						1.6	1.6

Table 8Fluopicolide MRL Calculations

Cantaloup	40% SC	395-406	2	18	0.4	Cucurbit	Cucurbit
e						vegetables	vegetables
Squash	40% SC	399-411	2	12	0.08	(CG 9)	(CG 9)
Cucumber	40% SC	391-405	2	12	0.08	0.5	0.5
Head	0.48 kg a.i./L	392-414	2	14	14	Leafy	Head and
Lettuce	SC					vegetables	Leaf lettuce
Leaf	40% SC	391-408	2	14	16	(CG 4)	
lettuce						25	16
Potato	40% SC	392-417	6-8	38	N/A	Tuberous	Tuberous
(extended						and Corm	and Corm
to sweet						vegetables	vegetables
potato)						(except	(except
						potatoes;	potatoes;
						CG 1D)	CG 1D)
						0.02	0.02
Grape,	Based on the grape field trial HAFT and processing					6.0	4.1
Raisin		fact	or				

N/A – Not applicable – The MRL calculator was not used based on the residue data.

Population Subgroup	% ADI (Refined)
Total Population	2.5
All Infants (<1 year old)	2.7
Children 1-2 years old	4.2
Children 3-5 years old	3.5
Children 6-12 years old	2.4
Youth 13-19 years old	1.8
Adults 20-49 years old	2.4
Adults 50+ years old	2.6
Females 13-49 years old	2.5
Population Subgroup	% ARfD (Basic; 95 th percentile)
Females 13-49 years old	28.9

References

A. List of Studies/Information Submitted by Registrant

Chemistry

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Document	
Number	
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1446173	2003, Analytical Method: Determination of Group 1 Impurities in AE C638206
	Technical Materials by HPLC, Analytical Method No. AM000203FP1, MRID:
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	Iechnical Materials by HPLC, Analytical Method No. AM000303FP1, MRID:
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