



Endocrine Disruption and Hazard Criteria in the EU: *Managing the Trade Challenges*

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Content...



- About ECPA
- Hazard criteria and Endocrine Disruption
- EU Policy on Import Tolerances
- Trade implications
- Conclusions

About ECPA...



- ...represents the R&D-driven crop protection industry in Europe
 - 22 multinational companies; 32 national associations; 26,000 people
- ...advocates policies & legislation that foster innovation
 - giving Europe's farmers the tools they need
- ...promotes good agricultural practices projects to
 - Protect health
 - Ensure safe & affordable food
 - Safeguard water;
 - Enhance biodiversity;









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And 32 national associations...



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- Belgium

France

Bulgaria

Germany

Croatia

Greece

Cyprus

- Hungary
- Czech Republic Ireland

Denmark

Italy

Finland

- Kazakhstan
- Latvia

- Lithuania
- Netherlands
- Norway
- Serbia
- Slovakia
- Slovenia
- Spain
- Sweden

- Switzerland
- Poland
- Portugal
- Romania
- Russia
- Turkey
- UK
- Ukraine

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EU Pesticides legislation



Regulation 1107/2009

- Replaced Directive 91/414 (risk based legislation)
- Hazard-based approach added
 - Inc. POPs, CMR & endocrine disruptors

Regulation 396/2005

- Maximum residue levels (MRLs) and import tolerances
- Risk based (no mention of hazard criteria)



Endocrine Disruption *in EU pesticides legislation*



Introduced in Regulation 1107/2009

Endocrine disruption: a hazard based cut off criteria

Detail criteria: Annex II, Regulation 1107/2009

An active substance ... only be approved if ... it is not considered to have **endocrine disrupting properties** that may cause adverse effects...

By [13 December 2013], the Commission shall present ... specific scientific criteria for the determination of endocrine disrupting properties...

Steps towards adoption of criteria



- June 2016 Proposal for criteria (with impact assessment)
- July 2016 Present: Discussions between Commission and committee of Member States (SCoPAFF)
- 17 May 2017: Draft proposal presented for discussion
- 30 May 2017: Vote postponed, until...?

Next steps

- Will depend on when they vote and how they vote...
- Q4 2017?: Formal adoption of criteria
- Q1 2018?: Entry into force of final ED criteria

EU Impact Assessment



26 PPP substances identified as being 'impacted'

- Final result could be greater (with conservative evaluations)
- Knock on effect
- Esp. on trade



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Setting Import Tolerances



- The policy on endocrine disruption will impact on the availability of products in the EU
- Any impact on trade will be due to <u>restrictions in the</u> <u>setting of import tolerances</u>
 - Question to be answered: If a substance is not approved in EU due to human health issues, will import tolerances still be set for 3rd country trade?



Setting import tolerances

Politics vs science and law



approved

Substanc (Regulation 1107/2000)
Substanc Human health concern

No approval **Not related** to HH issue

Mai MRLs granted Levels (Reg No MRLs granted

No MRLs granted

Import Tolerances

Import tolerance

ria -Hazar Political De sion Reg. Risk 396/2005 based

Import tolerance

Setting import tolerances

Politics vs science and law



approved

Substanc (Regulation 1107/2000)
Substanc Human health concern

No approval **Not related** to HH issue

MRLs evels (Reg

C-M-R

Endocrine disruption

Risk Ass. (H. Health) Risk Ass. (General)

POPs

Policy on import tolerances



Key points for policy discussion:

- Regulation 1107/2009 introduces hazard based criteria
- Hazard based restrictions on import tolerances would be
 - Contrary to the EU's MRL legislation (Reg.396/2005)
 - Contrary to WTO SPS agreement
 - With substantial impact on international trade!
- WTO requires that decisions are based on risk assessment
 - the EU must continue to comply with SPS principles
 - Third country voices needed (political and trade)!

Content...

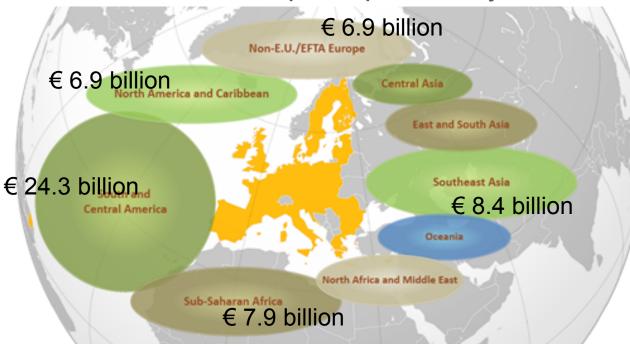


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ED criteria – Trade Impact



€65 billion of EU imports potentially affected



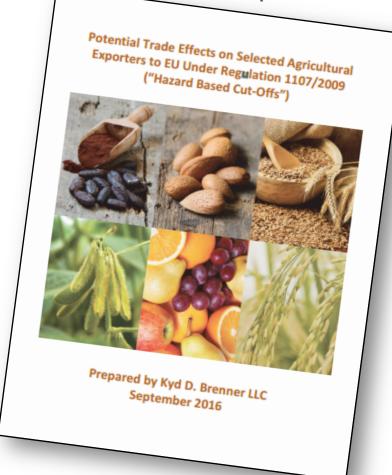
Potential Trade Effects on World Agricultural Exporters of European Union Regulations on Endocrine Disruptors Kyd D. Brenner, February 2014

Category	<i>€m</i> (2012)
Fruit & Nuts	€ 13,795
Animal Feed Ingredients	€ 9,780
Oilseeds & Groundnuts	€ 9,574
Coffee, Tea & Spices	€ 9,470
Vegetable Oil	€ 8,222
Cereals	€ 4,613
Cocoa	€ 4,336
Vegetables	€ 3,525
Sugar	€ 2,046
Total	€ 65,362

Updated study on potential impact

- Targeted review of crop & country combinations
- Based only on ASs identified as probable Endocrine Disruptors (in EU impact assessment)





Report: potential impact – exports to EU

Based on list of ASs identified in EU Commission impact

Commodity	Country	Affected MRLs	Million € (ave. 3 yrs)
Almonds	United States	14	1,282
Peanuts	United States	11	178
Soybeans	United States	13	1,555
Apples/Pears	New Zealand	18	170
Apples/Pears	South Africa	27	245
Banana/Plantain	Colombia	10	786
Citrus Fruits	Argentina	14	199
Citrus Fruits	South Africa	13	485
Cocoa	Ivory Coast	8	1,267
Coffee	Brazil	15	2,221
Coffee	Mexico	4	85
Table Grapes	Chile	19	294
Palm/Palm Kernel Oil	Malaysia	9	1,494
Peanuts	Argentina	13	351
Rapeseed (Canola)	Australia	7	666
Rice	India	12	318
Soybeans	Brazil	21	2,182
Wheat	Canada	6	601
		TOTAL	
		TRADE:	€ 14,386

Almonds from the United States

Active substance	US	EU	Codex*	Functional Use	CMR Based on EFSA/ECHA	Option 2 - ED
2,4-D	0.2	0.2	0.2	Herbicide		YES
8-Hydroxyquinoline incl. oxyquinoleine		0.01		Fungicide	R1B	YES
Amitrole		0.02		Herbicide		YES
Boscalid	0.7	1	0.05	Fungicide		YES
Brodifacoum**				Rodenticide	R1A	
Bromadiolone				Rodenticide	R1B	
Carbendazim**		0.1	0.1	Fungicide	M1B & R1B	
Carbetamide		0.05		Herbicide	C2 + R1B	
Chlorophacinone**				Rodenticide	R1B	
Cypermethrin		0.05	0.05	Insecticide		YES
Cyproconazole		0.05		Fungicide	R1B	YES
Desmedipham		0.01		Herbicide		YES
Difenacoum				Rodenticide	R1A	
Difethialon**				Rodenticide	R1B	
Epoxiconazole		0.05		Fungicide	C2 + R1B	YES
Fenamidone		0.02		Fungicide		YES
Flocoumafen**				Rodenticide	R1B	
Flubendiamide	0.06	0.1	0.1	Insecticide		YES
Flumioxazin	0.02	0.05	0.02	Herbicide	R1B	
Flupyrsulfuron-methyl		0.02		Herbicide	Interim (R2+C2)	
Flurochloridone		0.1		Herbicide		YES
Flusilazole**				Fungicide	R1B	
Folpet		0.02		Fungicide	C2 + R1B	
Glufosinate	0.1	0.1	0.1	Herbicide	R1B	
Iprodione	0.3	0.2	0.2	Fungicide		YES
Isoxaflutole		0.02		Herbicide	Interim (R2+C2)	
Lenacil		0.1		Herbicide		YES
Linuron		0.05		Herbicide	C2 + R1B	YES
Malathion	8	0.02		Insecticide		YES
Mancozeb	0.1	0.05	0.1	Fungicide		YES
Maneb		0.05	0.1	Fungicide		YES
Metiram		0.05	0.1	Fungicide		YES
Myclobutanil	0.1	0.05		Fungicide		YES
Oxadiazon		0.05		Herbicide		YES
Pendimethalin	0.1	0.05		Herbicide		YES
Propyzamide		0.02		Herbicide		YES



Active substance	US	EU	Codex*	Functional Use	CMR Based on EFSA/ECHA	Option 2 - ED
Pymetrozine		0.02		Insecticide	Interim (R2+C2)	
Spirodiclofen	0.1	0.1	0.05	Insecticide		YES
Tebuconazole	0.05	0.05	0.05	Fungicide		YES
Tepraloxydim		0.1		Herbicide		YES
Tetraconazole		0.02		Fungicide		YES
Thiacloprid		0.02	0.02	Insecticide	R1B	
Thiophanate-methyl	0.1	0.2	0.1	Fungicide		YES
Thiram		0.1	0.1	Fungicide		YES
Tralkoxydim		0.02		Herbicide		YES
Triflumizole		0.1		Fungicide	R1B	YES
Triflusulfuron		0.02		Herbicide		YES
Warfarin**		0.01		Rodenticide	R1B	
Ziram	0.1	0.1	0.1	Fungicide		YES

^{*}Does not adopt Codex MRLs, ** No longer approved in EU

EU IMPORTS - ALMONDS FROM US - ANNUAL AVERAGE 2013 - 2015						
Product	HS Code	Unit	All EU Imports	From US	% of Imports From US	
Almonds In Shell	80211	Metric Tons	3,382	2,855	84.4%	
Almonds Shelled	80212	Metric Tons	226,399	202,792	89.6%	
Almonds In Shell	80211	Euros	€ 14,500,066	€ 12,609,969	87.0%	
Almonds Shelled	80212	Euros	€ 1,417,811,102	€ 1,269,431,655	89.5%	
All Almonds		Metric Tons	229,781	205,67	89.4%	
		Euros	€ 1,432,311,168	€ 1,282,041,624	89.5%	

Example:

Almonds from the United States



Active substance	US	EU	Codex*	Functional Use	CMR Based on EFSA/	Option 2 ED
					ECHA	
2,4-D	0.2	0.2	0.2	Herbicide		YES
Boscalid	0.7	1	0.05	Fungicide		YES
Flubendiamide	0.06	0.1	0.1	Insecticide		YES
Flumioxazin	0.02	0.05	0.02	Herbicide	R1B	
Glufosinate	0.1	0.1	0.1	Herbicide	R1B	
Iprodione	0.3	0.2	0.2	Fungicide		YES
Malathion	8	0.02		Insecticide		YES
Mancozeb	0.1	0.05	0.1	Fungicide		YES
Myclobutanil	0.1	0.05		Fungicide		YES
Pendimethalin	0.1	0.05		Herbicide		YES
Spirodiclofen	0.1	0.1	0.05	Insecticide		YES
Tebuconazole	0.05	0.05	0.05	Fungicide		YES
Thiophanate- methyl	0.1	0.2	0.1	Fungicide		YES
Ziram	0.1	0.1	0.1	Fungicide		YES

Potentially impacted substances by 'wrong' policy on import tolerances

Indicative list of substances that:

- Trigger CMR criteria
- Potentially trigger ED

 (based on 2 published evaluations)

		Option 2 - Identified substances		
Active subsance	CMR Based on EFSA/ECHA	Taken from Commission	0	Comments
0.4.0	2. 6. 2 2 6	YES	10,000	
2,4-D		YES	-	
8-Hydroxyquinoline incl. oxyquinoleine		TES	-	EU non-approval (phase-
Amitrole		YES	YES	out)
Boscalid		YES		
Brodifacoum	R1A			No longer approved in EU
Bromadiolone	R1B			
Carbendazim	M1B & R1B			No longer approved in EU
Carbetamide	C2 + R1B			
Chlorophacinone	R1B			No longer approved in EU
Cypermethrin		YES	YES	
Cyproconazole	R1B	YES	YES	
Desmedipham		YES	YES	
Difenacoum	R1A			
Difethialon	R1B			No longer approved in EU
Epoxiconazole	C2 + R1B	YES	YES	
Fenamidone		YES	YES	
Flocoumafen	R1B			No longer approved in EU
Flubendiamide		YES	YES	
Flumioxazin	R1B			
Flupyrsulfuron-methyl	Interim (R2 + C2)			
Flurochloridone	R1B	YES	YES	
Flusilazole	R1B			No longer approved in EU
Folpet	C2 + R1B)			
Glufosinate	R1B			
Iprodione	1.1.1.(20.00)	YES	YES	
Isoxaflutole	Interim (R2 + C2)		\(\(\)	
Lenacil		YES	YES	
Linuron	C2 + R1B	YES	YES	
Malathion		YES	VE0	
Mancozeb		YES	YES	5
Maneb		YES	YES	Expiry 30 June 2017
Metiram		YES	YES	
Myclobutanil		YES	YES	
Oxadiazon		YES YES	VEC	
Pendimethalin		YES	YES YES	
Propyzamide	Interim (D2 + C2)	TES	TES	
Pymetrozine Spirodiolofon	Interim (R2 + C2)	YES	YES	
Spirodiclofen		YES	YES	
Tebuconazole		YES	150	
Tepraloxydim Tetraconazole		YES		
	R1B	150		
This bands mathyl	KIB	YES	YES	
Thiophanate-methyl Thiram		YES	150	
Tralkoxydim		YES	-	
Triflumizole	R1B	YES	-	
Triflusulfuron	KIB	YES	YES	
	R1B	153	IES	No longer approved in EU
Warfarin Ziram	KID	YES		ino longer approved in EU
zıram Pyriproxyfen		153	YES	
2-Phenylphenol (incl. sodium salt			1 123	
orthophopulahanal)			VEC	

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Conclusion Take home messages



- ED criteria will have a significant impact
 - On product availability in EU
 - On regulatory coherence <u>globally</u>
- Wrong EU policy on setting Import Tolerances
 - Would be incompatible with EU law and WTO rules
 - With major impact on trade in agricultural products
- Third country voices need to be heard
 - Continued input at political and trade levels



European Residues Conference 2017



16th & 17th October 2017 Sheraton Airport Hotel, Brussels

More details and registration to follow @

https://ecpa.events.idloom.com/residues2017



Reference documents



- 01. ECPA paper Setting import tolerances in the EU
- 02. Presentation initial trade impact study 2014
- 03. 2016 study on trade impact of EU policy on endocrine disruption & ITs
- 04. Presentation of EU policy on ED in chemicals





Thank you for your attention!

Director, Regulatory Affairs

Director, Regulatory Affairs

Crop Protection Association, aisbl

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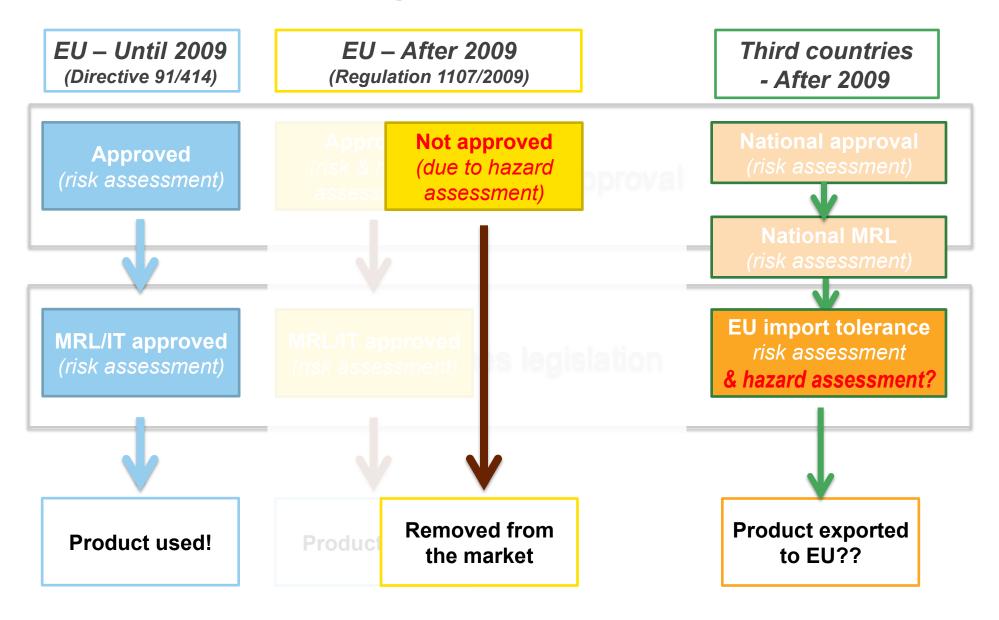
Association



ADDITIONAL INFORMATION



What it means for a particular substance?



Almonds & Peanuts from the United States



EU IMPORTS - ALMONDS FROM US - ANNUAL AVERAGE 2013 - 2015							
Product	Unit	All EU Imports	From US	% Imports From US			
All Almonds	Metric Tons	229,781	205,67	89.4%			
	Euros	€ 1,432,311,168	€ 1,282,041,624	89.5%			

EU IMPORTS - PEANUTS FROM THE US - ANNUAL AVERAGE 2013 - 2015							
Product	Unit	All EU Imports	From US	% of EU Imports			
All Groundnuts (Peanuts), Roasted	Metric Tons	625,277	149,553	23.9%			
	Euros	€ 768,248,483	€ 178,094,830	23.2%			