

Regulatory changes and challenges in relation to cocoa



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European Cocoa Association

- The voice of the European cocoa industry
- Regroups the major companies involved in the cocoa bean trade and processing, in warehousing and related logistical activities
- ECA 31 Members representing:
 - over two-thirds of Europe's cocoa beans grinding
 - 50% of Europe's industrial chocolate production
 - 40% of the world production of cocoa liquor, butter and powder
- ECA secretariat monitors EU regulatory developments (food safety, trade, labelling) - flagging those that will have an impact on business operations.







- Cadmium
- PAH
- Pesticides
- Mineral oils
- Alkalising agents
- Country of origin labelling
- Brexit







Cadmium: new regulation EU – Codex under development











Cadmium: new regulation EU – Codex under development

- In all food through foliar & root uptake and accumulates in fat free solids
- May cause kidney and bone-damage, carcinogenic
- In cocoa via natural presence in soil & via atmospheric contamination & industrial activities
- Cd levels vary between/within regions max limits can threaten export
- EU proposed max. limits in cocoa and chocolate in 2007
- EU maximum limits May 2014 5 yr transition period
- Codex Alimentairus eWG work ongoing
- Involvement research & cocoa producing countries, support with data to have manageable limits while guaranteeing food safety







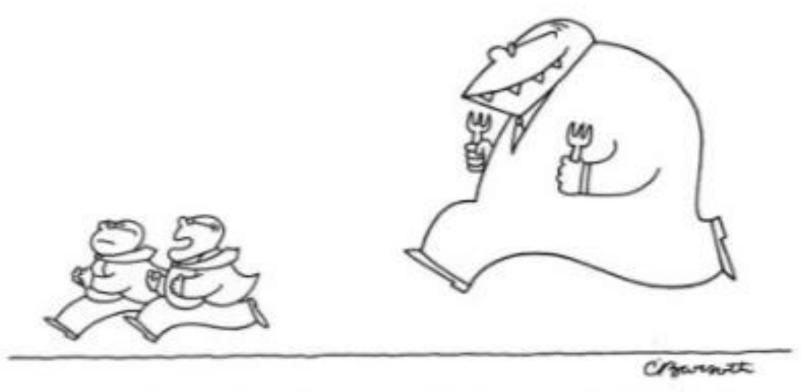
Cadmium: new regulation EU – Codex under development

- Framework Regulation (EC) N° 1881/2006 setting maximum levels for certain contaminants in foodstuffs
- Commission Regulation (EC) N° 488/2014 as regards maximum levels of cadmium in foodstuffs as of Jan 1 2019
 - Milk chocolate with < 30% total dry CS: 0,10 mg/kg
 - Chocolate with < 50% total dry CS; milk chocolate with ≥ 30% total dry CS: 0,30 mg/kg
 - Chocolate with ≥ 50% total dry CS: 0,80 mg/kg
 - Cocoa powder sold to the final consumer or as an ingredient in sweetened cocoa powder sold to the final consumer (drinking chocolate): 0,60 mg/kg





Polycylcic Aromatic Hydrocarbons: EU regulated



"No, I didn't. I never said there should be no government regulation."



Polycylcic Aromatic Hydrocarbons: EU regulated

- Present in air, water, soil and in a wide varity of foodstuffs
- Some PAHs are carcinogenic and/or genotoxic
- In cocoa post-harvest and/or via industrial activity via smoke getting in contact with cocoa beans
- EU Maximum limits for PAH in cocoa as of April 2013
- Involvement cocoa producing countries, information & promotion of GAP, collection of data to have reasonable & manageable limits while guaranteeing food safety





Polycylcic Aromatic Hydrocarbons: EU regulated

- Framework Regulation (EC) N° 1881/2006 setting maximum levels for certain contaminants in foodstuffs
- Commission Regulation (EC) N° 835/2011 as regards maximum levels of PAH in foodstuffs as of 1 Apr 2013:

Cocoa beans and derived products

B(a)P: 5,0 μg/kg fat (*) as from 1.4.2013
 PAH4: 30,0 μg/kg fat as from 1.4.2015

(*): expressed as fat in product

B(a)P: benzo(a)pyrene

PAH4: benzo(a)pyrene, benzo(a)anthracene,

benzo(b)fluoranthene and chrysene







Pesticides







Pesticides

- Very few Pesticide MRLs at Codex level
- Japan & EU apply, in absence of specific MRL, default value of 0,01ppm
- US only has a couple of MRLs in cocoa, zero tolerance if no specific MRL
- Solution for not exceeding MRLs:
 - Promotion GAP & IPM (no guarantee for zero residue (LOQ))
 - Harmonisation of limits
- Non harmonised regulations: no food safety risk but regulatory risk!





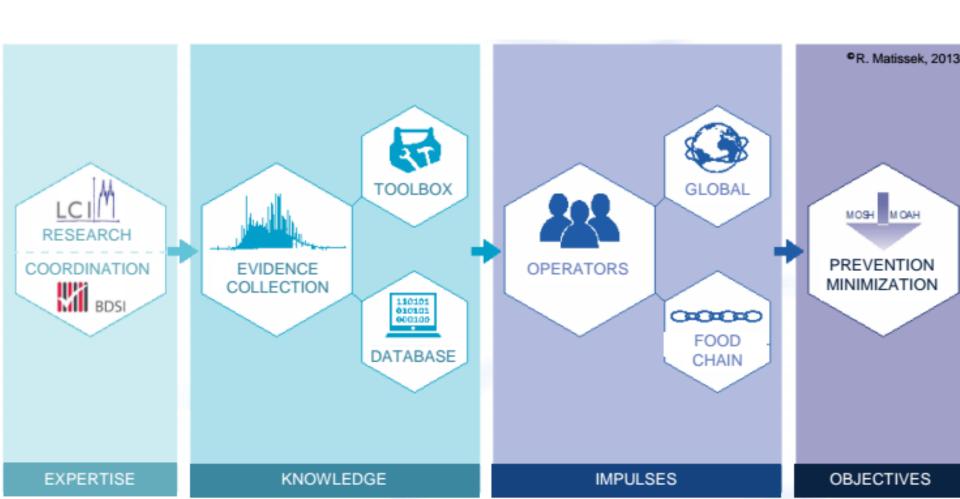


- If pesticides bans: affordable and effective alternatives are necessary.
- Info sharing on use involvement cocoa producing countries etc
- Involvement in Regulatory reviews of pesticide limits:
 - Currently proposed In EU: decrease MRL Metalaxyl: 0,1 ppm to 0,01ppm
 - Problematic for use of Metalaxyl against black pod (Phytophtora) disease
 - Joint library with residue data will be used





Mineral oils





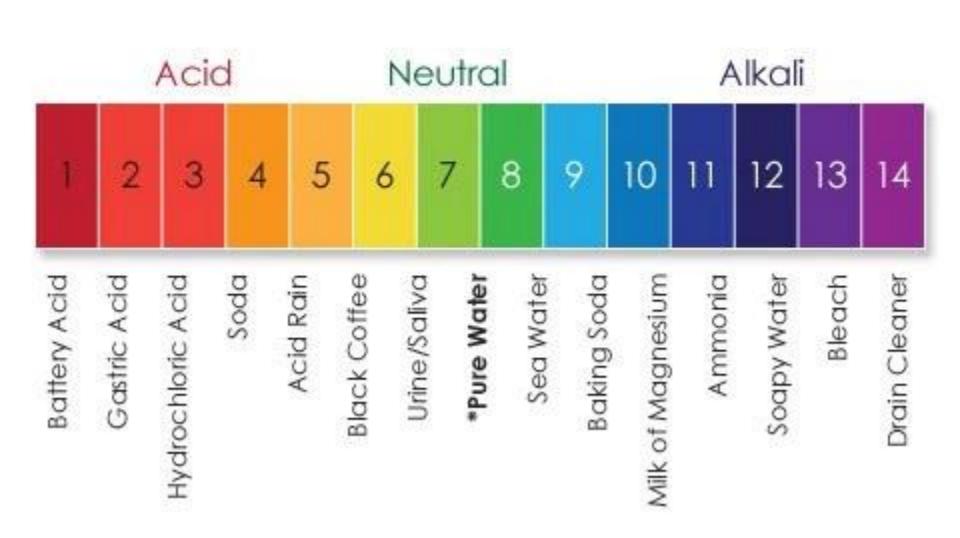
Mineral oils: MOSH, MOAH

- Presence in food via
 - packaging (printing inks via recylcled paper etc)
 - jute bags
 - Iubricants
 - background exposure (transport)
- Can be carcinogenic, mutagenic, endocrine disruptors and may result in disfunctions via ccumulation in the body
- German BDSI study June 2016: General presence in all food and all actors in supply chain contribute
- EC recommendation to monitor mineral oils in foods & articles intended to come in contact with foods in 2017 & 2018
- ? Max. Limits after EFSA opinion publication based on the results
- Need for reliable method, research ongoing





Alkalising agents





Alkalising agents

- Alkalising agents are used as acidity regulators impact on taste and color as well
- EU/Asia Food industry approach → Alkali = processing aids (= no labelling)
- US: obligatory labelling "processed with alkali".
- EU opinion June 21 2016: alkalising agents = additives in cocoa
- Difficulties:
 - Additives = use limits (7%)
 - Impact labelling and adjustment recipes
 - Alkalised cocoa as ingredient: residues no technological function in the final product and not known to be dangerous for human health
 - Certain countries do not allow use alkalising agents: export threat





Country of origin labelling





Country of Origin labelling

- EU Food Info to Consumers Regulation (EC) N° 1169/2011 Discussion on COOL US: information on origin of product
- Origin of single of main and characterising ingredients
- **Origin when different from labelled origin** ('made in')
- 'Made in' is a regulatory requirement in many countries
- Belgian and Swiss chocolate: need to be produced in Belgium/Switserland.
- Cocoa is a bulk products, Cocoa is typically used in blends to achieve required taste and quality: variation in origins. Cocoa is obviously non European
- Non harmonised regulations on origin (min 50% of one origin etc)









- June 2016: decision to withdraw from EU no agreed timelines yet
- EU currently sets hygiene and food safety standards covering a.o. labelling, composition, contaminants etc: EU sets requirements for regulatory checks
- EU has 36 Free Trade Agreements (FTAs)
- With Brexit:
 - UK can set own national legislation, new standards (local production, import)
 - UK can implement EU import checks as third country
 - UK will need to renegotiate its WTO memberships and may negotiate its own
 FTAs country per country or can join the EEA or EFTA and adopt their FTAs
 - EU could introduce import tariffs on goods coming from the UK UK can work on FTA with EU or on customs zone with EU





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