

## **ECMA Technical Committee** Malta congress

Jack Pieterson - Smurfit Kappa Chairman ECMA Technical Committee

Jan Cardon Advisor ECMA Technical Committee September 20<sup>th</sup>, 2019



## **ECMA Technical Committee**

<u>A&R Carton</u> Robert Mayr <u>ECMA</u> Jan Cardon, Hans van Schaik <u>Edelmann</u> Dieter Moessner <u>FFI</u> Christian Schiffers <u>Graphic Packaging International</u> Rahhal Benfaida <u>Mayr Melnhof Packaging</u> Heinz Traussnig <u>MPS/Westrock</u> Achim Lershen, Elaine Murray <u>SEDA</u> Paolo Minichini <u>Smurfit Kappa</u> Jack Pieterson (chairman) <u>Van Genechten Packaging</u> Michael Avemarg

## Agenda

## Food safety

- Update mineral oils
- Council of Europe Technical guide P&B
- CEPI/CITPA guideline
- More to be aware of
- Recyclability of cartons



## **Update mineral oils**



**Rüdiger Helling** 13-14 June 2019 Fresenius conference



Migrat

6.0 5.0 MOAH 4.0 3.0 2.0 1.0 0.0

#### Aggregated data

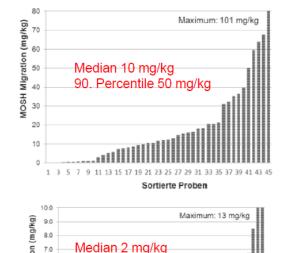
Categories a) b) c) (dry food, bakery products)

#### MOSH in mg/kg

	authority	industry	All data
No of data:			2.165
Maximum:	385,0	265,0	385,0
Median:	0,6	1,2	1,0
75% Percentile:	3,0	3,0	3,0
90% Percentile:	4,9	6,1	5,5
95% Percentile:	6,7	9,3	8,6

#### MOAH in mg/kg

	authority	industry	All data
No of data:			2.164
Maximum:	29,0	2087,0	2087,0
Median:	0,0	0,0	0,0
75% Percentile:	0,0	0,0	0,0
90% Percentile:	0,4	0,5	0,5
95% Percentile:	0,9	1,5	1,1



90. Percentile 6 mg/kg

BMEL decision project 2010 - 2012

#### German mineral oil benchmark study 2016-2018

- Project between Authorities & Industry, 10474 data sets used
- Statistical assessment of MO within different food categories (all sources)

#### **Outcome:** Progress made

- 2016-2018: data left side MOAH : 90% < 0.5mg/kg; MOSH 90% < 5.5 mg/kg
- 2010-2012: International Lab tests, data right side MOAH: 90% <6 mg/kg: MOSH 90% < 50 mg/kg



## **Update mineral oils**

Rüdiger Helling 13-14 June 2019 Fresenius conference

STAATSMINISTERIUM FÜR SOZIALES UND VERBRAUCHERSCHUTZ



#### Agreed benchmark levels

#### (compared to the Belgian Approach and exposure assessment of the NL)

Food category	Benchmark level MOSH	MOSH [mg/kg] C16-C35 Belgium (action threshold)	MOSH [mg/kg] used for exposure ass. NL	Benchmark level MOAH	MOAH [mg/kg] used for exposure ass. NL
Vegetable oils, plant oils (tropical oils excluded)	13	<mark>100</mark> (animal and vegetable oils and fats)	43	< LOQ (2)	6,5
Bread, rolls, biscuit, pastry, grains and grain based products,oats, pasta and noodles, rice, breakfast cereals	6	<b>15</b> (grains and grain based products)	1,8 (bread and rolls) 4,6 (pastry) 1,6 (snacks) 30,4 (pasta, noodles) 1,4 (rice) 1,2 (breakfast cereals) 5,4 (grain based prod.)	< LOQ (0,5 / 1)	0,3 (bread and rolls) 0,7 (pastry) 0,2 (snacks) 1,2 (pasta, noodles) 0,3 (rice) 0,4 (breakfast cereals) 0,8 (grain based prod.)
Confectionary, chocolate	9	<b>20-30</b> (desserts, sugar, confectionary)	11 (chocolate) 46 (confectionary) 3,6 (sugar) 2,7 (chocolate bunnies) 5,1 (chocolate clauses)	< LOQ (0,5 / 1)	1,7 (chocolate) 6,9 (confectionary) 0,5 (sugar) 0,4 (chocolate bunnies) 0,6 (chocolate clauses)



#### **Conclusion:**

NL: Assessment of contamination by all sources

 Effect of Packaging in exposure is restricted

#### B: Own analyses

- MOAH according D approach
- MOSH benchmark levels defined

Conclusions adopted by public authority experts & food industry (Germany, March 2019)

## **Update mineral oils**



EUROPEAN CARTON MAKERS ASSOCIATION



# French recommendation on paper and board (Update January 2019)

- No limit for mineral oil hydrocarbons: determined at a later stage.
- Polycyclic aromatic hydrocarbons (PAH): no detectable migration, i.e.:
  - Sum markers for PAH ≤ 1µg/kg. (benzo[3,4]pyrene, benzo(a)anthracene, benzo(b)fluoranthene and chrysene)
  - This conclusion will probably be part of Council of Europe Technical Guide

**TNO study** (NL, sent to all Food Safety members ECMA): Promising developments for Mineral Oil contamination based on fibre cleaning and adsorption approach:

- <u>Absorption</u>: Active Carbon, ATC, functionalised Clay
- <u>Cleaning</u>: floatation, sCO2, heat treatment

#### Plastic developments:

innovation for life

 Approval of 130 cleaning processes for PET (98,3-99,9%) expected by European Commission in 2020
 Cleaning need more attention within P&B !



## **Council of Europe Technical Guide Paper & Board**

Commission (DG SANTE) requested a study to assess existing FCM (Food Contact Material) legislation Consultant Ecorys, expected outcome in 2-3 years

Council of Europe shows faster development, drafts nearly ready for public consultation:

- General resolution on Food Contact Materials
- Technical Guide on required communication throughout the supply chain
- Technical Guide on paper and board materials:
  - Scope: only paper and board substrates. Inks, adhesives, ... are out
  - Reference to existing legislation, no own list of substances
  - A list with SML (Specific Migration Limit) for certain contaminants
  - Specific requirements for the use of Recycled P&B
  - Testing effectiveness of functional barriers/adsorbents



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47 European countries involved(≠ European Commission)Initiate non binding resolutions

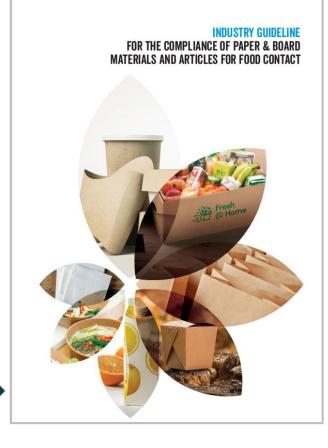
Often same country experts involved as in commission working groups

## **CEPI CITPA Guideline (April 2019)**

**Compliance of P&B materials for food contact – self guidance** 

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- Developed in Food Contact Coordination Group (CEPI/CITPA),
- Is a general guideline covering paper and board, <u>manufacturing and converting</u>, with a broad scope
- Important topics for our supply chain:
  - Known migrants, that can migrate to food, have to be communicated downstream the chain
  - For food additives with restrictions: the overall restriction limit should be respected (use in food + migration from food contact materials)



## **Other sector initiatives on self guidance**



Own sector initiatives remain relevant next to CEPI/CITPA general guideline:

 Objective to facilitate and harmonize communication in supply chain



	http:/	//www.cepi.or	g/topics/pp-v
ion: to cover the whole	value chain of pape	r based packaging	
Pulp & Paper Chemicals	Pulp & Paper Manufacturers	Packaging producers	Brand owners
Inks			
Adhesives			
Other packaging materials used in paper based packaging			-

- ECMA GMP
  - Develop ECMA GMP within industry GFSI certification schemes:
    - Chapter 4 "Recommendations for GMP compliance": specific guidance for carton manufacturing.
    - Chapter 5 "Guidance on inks and varnishes."
  - Updated GMP will be ready in summer 2020



## More to be aware of



Commission recommendation (EU) 2019/794 – May 2019: to check certain substances on their migration into food P&B mentioned related to 3 substances

	Food contact material to be sampled
Primary aromatic amines (PAA)	Plastic tableware and kitchenware and printed food contact materials including paper and board.
Phenol	Plastic kitchenware and tableware; varnished or coated materials and; printed plastic and paper and board packaging materials.
Fluorinated compounds	Paper and board based materials and articles, including those used to wrap fast-food, takeaway and bakery products and microwave popcorn bags.



## More to be aware of



#### **BEUC is European Organization of Consumers**

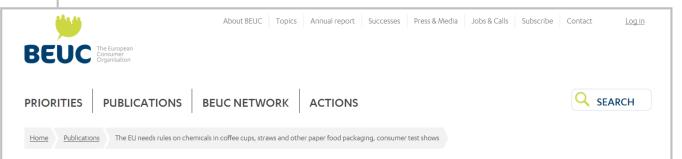
- Carton is seen as an alternative for plastics in food packaging
- But study (Denmark, Italy, Norway, Spain, 2019) expresses concerns regarding non harmonized regulation P&B for food safety

#### But

- The study gives the wrong impression that plastic packaging is regulated and P&B packaging is not
- Inks and adhesives used for all packaging materials are anyway not regulated in a harmonised way

#### **Actions taken**

- ECMA members informed (update 5. Sept)
- ECMA is in discussion to change their perception (via PIJITF and direct)



## The EU needs rules on chemicals in coffee cups, straws and other paper food packaging, consumer test shows

#### PRESS RELEASE - 25.07.2019

A new lab test shows that food packaging made of coloured paper and cardboard - such as coffee cups and straws - may contain and release chemicals originating from the inks used for printing. Paper is the second most used food packaging material after plastic. Unlike plastics, however, there are no EU rules governing paper's use as a food contact material.



## **ECMA TC Food Safety initiatives**



- Ongoing need to monitor legal developments in food safety a.o. DG SANTE, Council of Europe
- Remain recognised as a credible organization to provide correct information on sector and industrial processes a.o. Ecorys
- Contribute in initiatives of food safety self guidance for paper and board, a.o. CEPI/CITPA, FCCG, PIJITF
- Detect technical developments at leading food safety conferences and workshops a.o. ILSI, Fresenius
- Develop guidance documents for members a.o. GMP review
- Share information
  - via general quarterly update (broad distribution)
  - via more detailed mails to 70 "experts" in your companies



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EUROPEAN CARTON MAKERS ASSOCIATION

## **Recyclability of cartons**



#### **CEPI/CITPA** guideline on the recyclability of paper and board packaging (Draft 6)

#### Early drafts

- Give preference to alternatives to <u>UV varnishes</u>
- Give preference to alternatives to <u>hot-melt</u> glue

#### Present in draft 6

- Statement on UV out
- Hotmelt discussion ongoing

#### **Still difficult :** <u>Assimilation of all "composite packaging" with liquid cartons !</u> Also the cartons with a one sided thin PE coating.

Specialised paper recycling mills have specific processes in place to handle more complex paper packaging products.

It is crucial, that these complex paper packaging products are channelled through the right collection schemes to the paper recycling mills that can actually recycle them. ...



## **Recyclability of cartons**



EUROPEAN CARTON MAKERS ASSOCIATION

ECMA believes:

- It is not true that all folding cartons with a coating are not-recyclable &
- Detect innovations from new technology:
  e.g. surface treatment & new biobased barriers

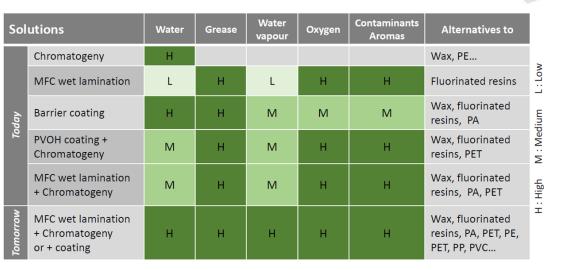
ECMA TC meeting at CTP Grenoble June '19



Source : Fabienne Vercelli (CTP) 25/06/2019



### Barrier Solutions offered by the CTP



MFC : Micro Fibrillated cellulose Chromatogeny<sup>TM</sup> : Brings hydrophobicity to hydrophilic reactive substrates.

## Needs in area of sustainability



Resources and new structures are required for:

- Direct involvement in the European Sustainability platforms:
  DG Environment, industry platforms, quality congresses
- Circular Economy Package & the climate debate Monitoring and involvement in studies
- Recyclability Involvement in platforms where test procedures are developed
- Open dialogue with actors in the carton supply chain on Eco-design guidelines





## **ECMA Technical Committee**

Malta congress

# Thank you