



Mineral oils in cartons.

**MOCRINIS Workshop
10th September 2013
Bologna**

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Agenda

1. ECMA in short.
2. Assessment mineral oil alert.
3. Sector recommendations.
4. ECMA GMP.
5. Remaining open questions.





1. ECMA in short.

European Carton Makers Association



Membership : National Carton Makers Associations and Direct Members
Represents 500 carton makers
Workforce 45 000

Turnover : 8 887 million € (2011)
50,1 % food packaging

Carton output volume : 4 281 000 Tonnes

Involved in the CITPA/CEPI food safety industry platforms.





2. Assessment mineral oil alert

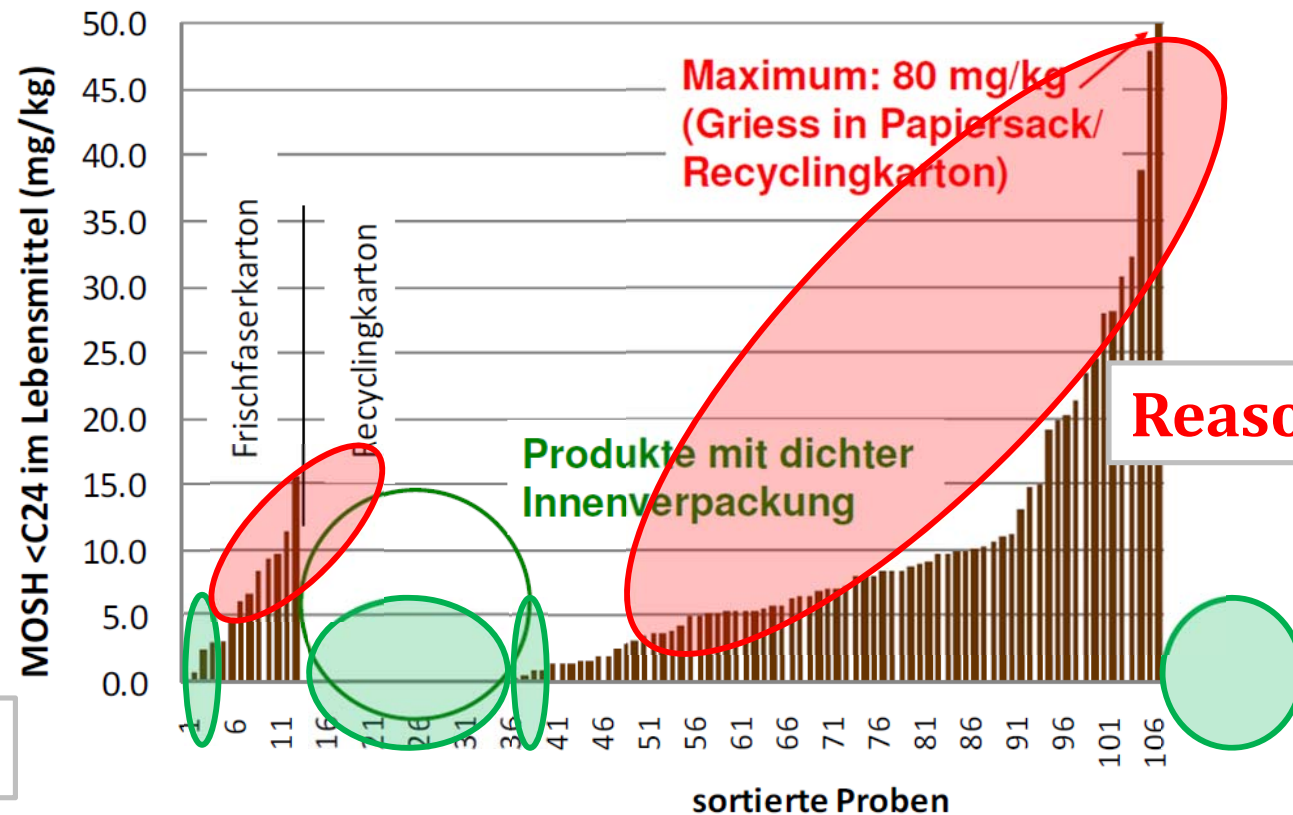
Mineralölmigration aus
Kartonschachteln: EH-119-
Proben-Studie und neuere
Daten

CVUA Stuttgart (A. Vollmer, W. Altkofer)
Kantonales Labor Zürich (M. Biedermann, S. Biedermann,
F. Grundböck, J.-E. Ingenhoff, K. Grob)

Until 2010
use recycled
cardboard in
direct contact with
dry food not
contested.

How to develop ?

Gemessene MOSH aus bedruckten Faltschachteln im Lebensmittel: ohne Proben mit Aluminium





Identified contaminations and potential solutions

- MO Newsprint inks remaining in the recycled board.
 - Elimination of the root cause.
Mineral oil free printing for all paper and board applications.
 - Cleaning out in the recycled pulping process.
 - Appropriate selection of recovered paper flows.
 - Introduction of barriers on the reverse side.

Optimised recycled board.

**Recycled barrier boards
and barrier coatings.**





- Inappropriate ink systems used in carton manufacturing.



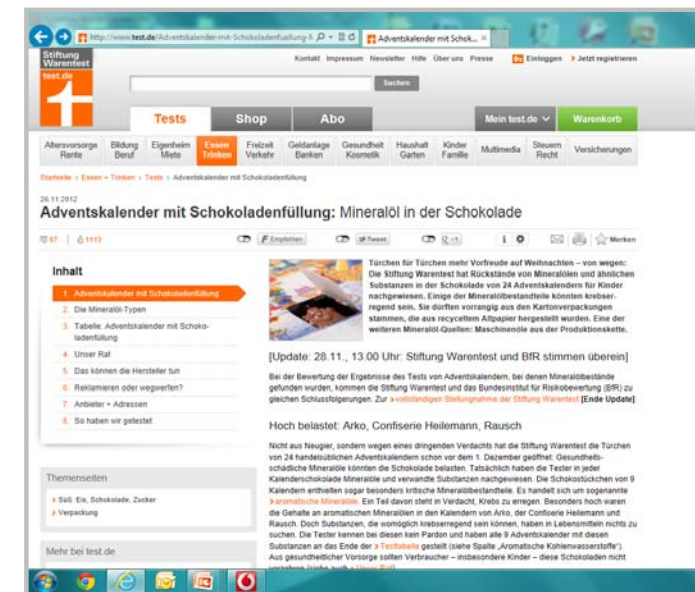
Introduction of mineral oil free inks.



Introduction of Low Migration inks.

- Contaminations during transport and storage.
- Contaminations in the production processes.

**German advent calendar alert
(November 2012)**
Test results 24 samples.
More sources involved.





3. Sector recommendations

ECMA position note (24 September 2010)

www.ecma.org (Public Affairs / Product Safety)



EUROPEAN
CARTON MAKERS ASSOCIATION

Position note

ECMA recommends to use low migration inks for food packaging and confirms the safety of recycled cardboard in combination with a systematic risk assessment procedure.

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This year confronted with uncertainties regarding the safety of mineral oils – used in conventional sheet-fed offset ink systems – ECMA first informed its members on the potential migration issues, and agreed mid September to issue a proactive formal public recommendation to use only low migration inks for food packaging. This offered additional safety has however cost consequences.

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As certain used substrates were identified as another main source for mineral oil contamination, ECMA confirms at the same occasion the safety of standard recycled cardboard for food packaging, if combined with an appropriate functional barrier. A responsible, safe, direct contact application of recycled cardboard remains however possible for specific food types in combination with a systematic risk assessment.

In the medium-term the presence of mineral oils in recycled board may considerably decrease, if newsprint editors would also switch towards more advanced ink systems designed for multipurpose recycling.

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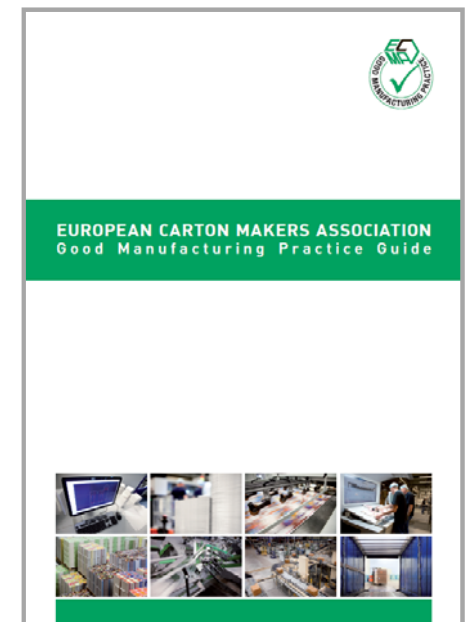




4. ECMA GMP

Content overview

1. Introduction
2. Regulation and guidance
3. Migration
4. Recommendations for compliance
5. Guidance on inks and varnishes
6. Process flow
7. References
8. Glossary
9. Q & A
10. Self compliance declaration



www.ecma.org

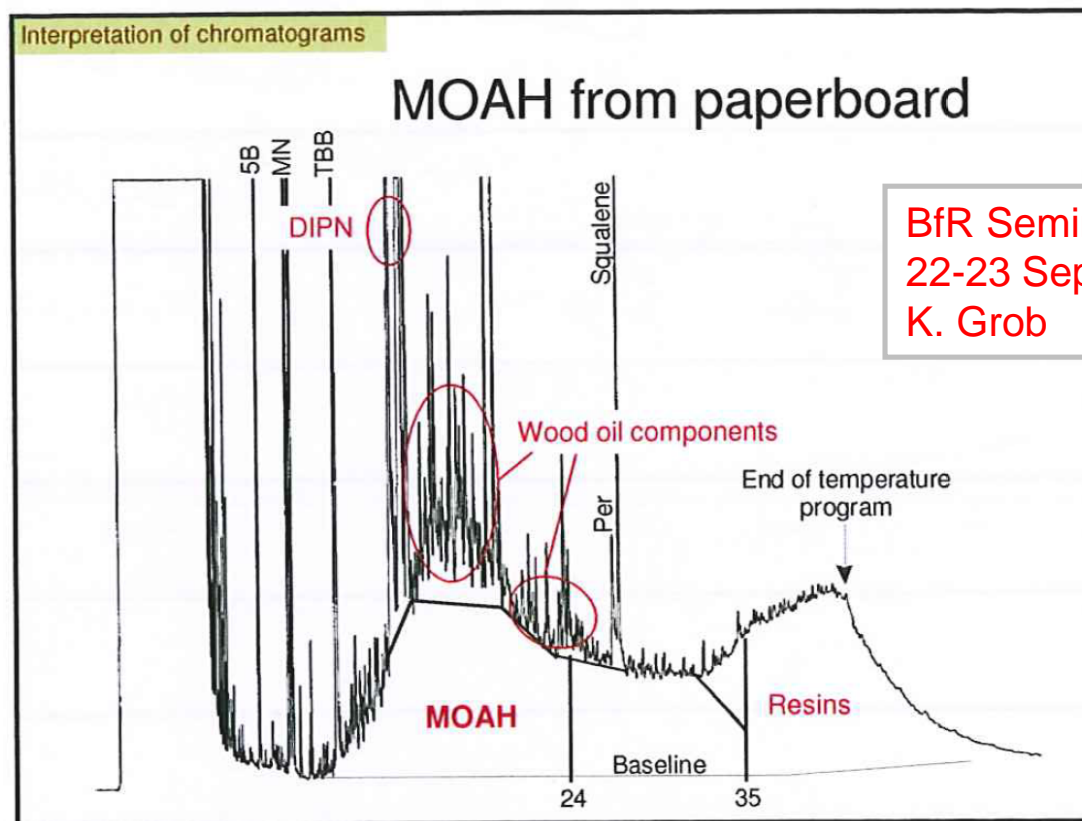




5. Remaining open questions

Technical and analytical challenges.

- Possibility to look into the subclasses of MOAH ?
- Identified genotoxic carcinogens : present / not present ?



BfR Seminar
22-23 September 2011
K. Grob



- How to eliminate the Polycyclic hydrocarbons PAH's from the entire paper and board chain ?

Policy challenges

- Proportionality of an **overall low limit** for MOAH questionable.
- All sources need to be taken in account.
- Maintain the recycling loops.
- Identical requirements for imported food.
- Harmonisation at EU level.

Commitment in supply chains

- Open adequate safety communication.
- Guaranteed safety as a prerequisite in contract negotiations.

Thank you.

