Mineral oil hydrocarbons in cocoa

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Dr. Julia Manetsberger
EU Food Safety Manager
European Cocoa Association
European Cocoa Association

Trade Association representing the European cocoa sector. ECA regroups the major companies involved in the cocoa bean trade and processing, in warehousing and related logistical activities.

ECA Members represent:

- 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
Regulatory landscape

- No legal limits for MOSH and MOAH at EU level
- No EU official method of analysis for MOSH/MOAH

EU level

Commission **Recommendation (EU) 2017/84** on the monitoring of mineral oil hydrocarbons in food and food contact materials during 2017/2018

Draft Guidelines for the **Sampling & Reporting of MOSH/MOAH** and for the **Determination of MOSH/MOAH** in food and food contact materials

National level

**“Opinion on Action thresholds for mineral oil hydrocarbons in food”:**
- **MOAH** (C16-C35): 0.5 mg/kg (potentially)
- **MOSH** (C16-C35): 30 mg/kg

**“Mineral oil ordinance” specifying migration limits:**
- **MOAH** (C16-C35): 0.5 mg/kg
- **MOSH** (C16-C35): none (previously: 2 mg/kg)
MOH entry into the cocoa supply chain

Cocoa supply chain*

1. Growing
2. Transport
3. Storage
4. Export
5. Logistics

- Pesticides
- Environment

- Jute bags
- Cardboard
- Drying & Fermentation
- Transport & Warehousing
- Lubricants
- Processing

Destination

- Food contact material
- Food processing
- Lubricants

*adapted from cocoafromghana.org
Industry initiatives - “Sources and Entry Points”

**Samples:**

1. GROWING
2. TRANSPORT
3. STORAGE
4. EXPORT
5. LOGISTICS

**Regional Focus:**

Ghana  Ivory Coast  Nigeria  Cameroon

*adapted from cocoafromghana.org
Industry initiatives - “MOH Ring trial”

Proficiency Testing of MOH in cocoa products and packaging material

**Expected outcome:**

- **Factual results** on MOH analysis
- Insight into **profiling** of MOH in support of identifying the **source of contamination**
- **Limit of detection** (LOD) and **Limit of quantification** (LOQ)

Deutsches Referenzbüro für Ringversuche und Referenzmaterialien
THANK YOU!

julia.manetsberger@eurococoa.com

http://eurococoa.com/