# Mineral oil hydrocarbons in cocoa

## World Cocoa Conference - 24 April 2018

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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

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# 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**":
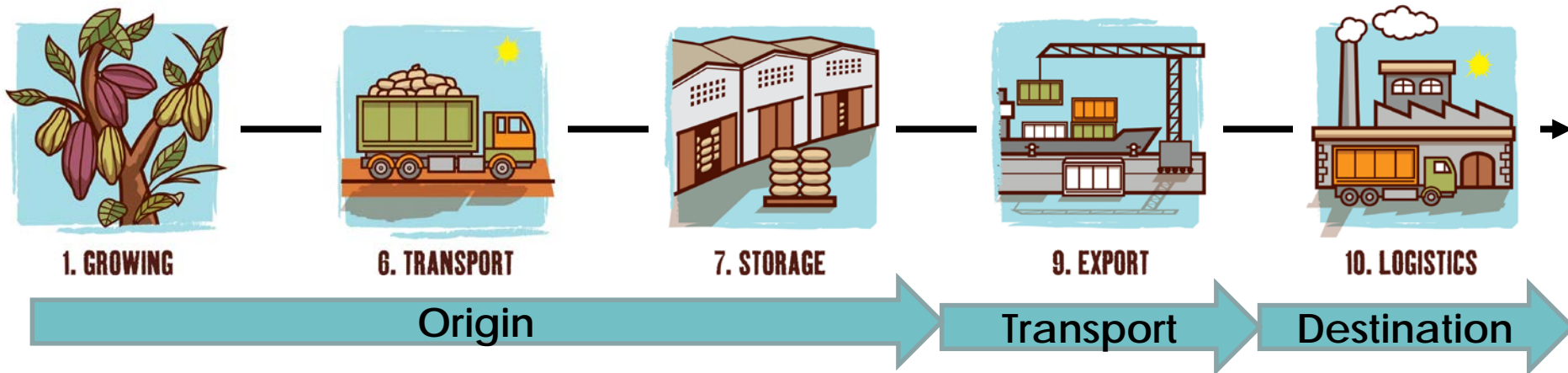- **MOAH** (C16-C35): 0.5 mg/kg (potentially)
- **MOSH** (C16-C35): 30 mg/kg

"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          6. TRANSPORT          7. STORAGE          9. EXPORT          10. LOGISTICS

Origin                                          Transport          Destination

- Pesticides
- Environment

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

- Food contact material
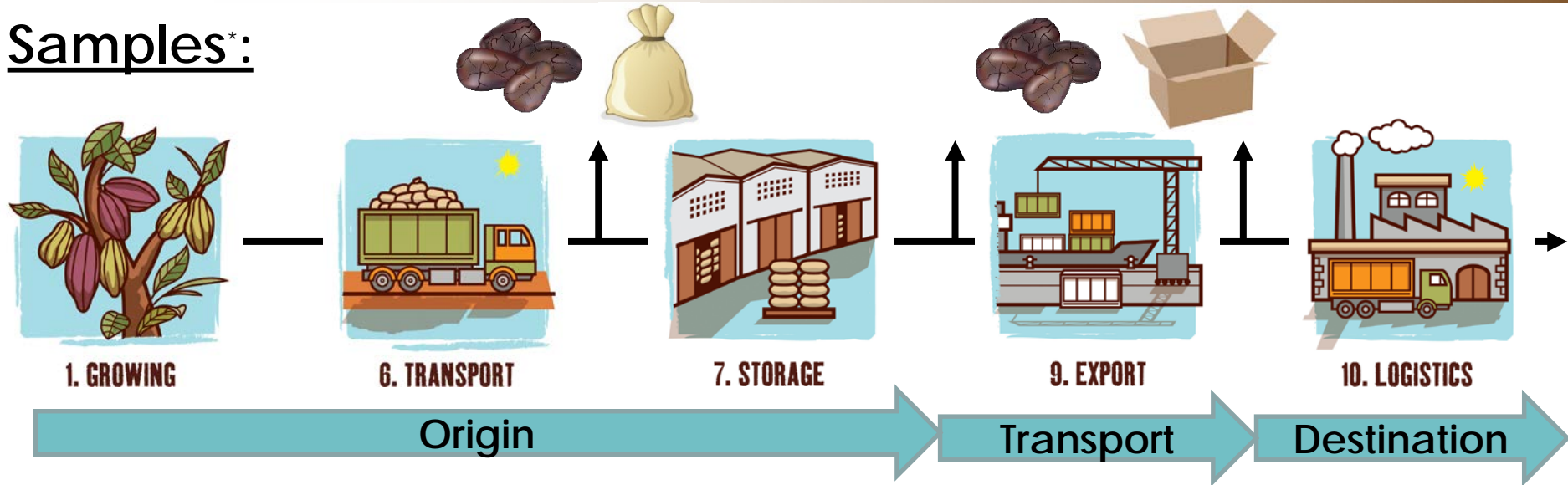- Food processing
- Lubricants

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*adapted from cocoafromghana.org

# Industry initiatives - "Sources and Entry Points"

## Samples*:

| 1. GROWING | 6. TRANSPORT | 7. STORAGE | 9. EXPORT | 10. LOGISTICS |

Origin → Transport → Destination

## Regional Focus:

Ghana    Ivory Coast    Nigeria    Cameroon
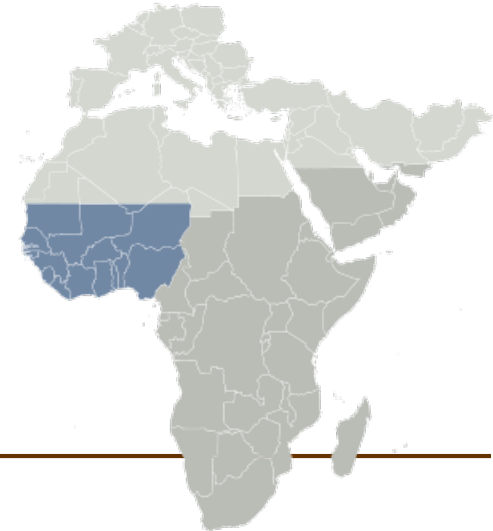
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*adapted from cocoafromghana.org

# 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)

**D**eutsches
**R**eferenzbüro für
**R**ingversuche und
**R**eferenzmaterialien

Round 3
Round 2
Round 1

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# THANK YOU!

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