

# MOCRINIS Workshop

## Bologna, Italy

### 10-11 September, 2013

## Day 1: Tuesday 10 September 2013

08:00 Registration

### 1. Opening Session

Moderator: Dirk Danneels, European Wax Federation

09:00 **Welcome and opening comments**  
Juan-Carlos Carrillo, Shell (confirmed)

09:15 **Goals and outline of the Workshop**  
Juan-Carlos Carrillo, Shell

### 2. Setting the Scene on “Mineral Oil”

Moderator: Dirk Danneels, European Wax Federation

Mineral oils are petroleum substances obtained from crude oil. Mineral oils are complex substances of hydrocarbon components with carbon number ranging from C15 to C50 and consist of saturated (normal, branched, naphthenic) and aromatic hydrocarbons. The chemical composition is set by manufacturing processes to satisfy a range of performance, physical and toxicological properties.

09:30 **Mineral Oil – Origin, Production and Composition**  
Anna Hedelin, Nynas (confirmed)

09:45 **Analytical Characterisation of Mineral Oils**  
Stuart Forbes, Shell (confirmed)

09:55 **Mineral Oils in Printing Inks**  
Erich Frank, Flint Group (confirmed)

10:05 **Mineral Oils in Cartons**  
Jan Cardon, European Carton Makers Association (confirmed)

10:15 **Mineral Oils: The Point of View of the Paper Industry**  
Eugenio Cavallini, Confederation of European Paper Industries (confirmed)

10:25 **Mineral Oils and Food. A Partnership for the Future?**  
Andre Adam, FRAGOL (confirmed)

10:40 **Discussion**

10:50 **Coffee Break**

### 3. Toxicology of Mineral Oils

Moderator: Dirk Danneels, European Wax Federation

The known hazard information will be summarized both for mineral oils with non-food technical applications and for highly refined mineral oils with food contact applications. The hazard of concern for mineral oils with non-food applications is dermal carcinogenic potential, which is related to aromatic hydrocarbon content and evaluated with short-term predictive assays. Mineral oils used in food contact applications consist primarily of saturated hydrocarbons, and the hazard of concern is liver granuloma development that has been observed in a single rat strain. Differences in bioavailability and metabolic profiles across species will be reviewed in order to assess the human relevance of these liver granulomas.

- 11:15**      **Mammalian Toxicology and Toxicokinetics of Mineral Oil**  
Peter Boogaard, Shell (confirmed)
- 11:35**      **Overview of Metabolic Differences**  
Jean-Pierre Cravedi, French National Institute for Agricultural Research (confirmed)
- 11:55**      **Mineral Oil Hydrocarbons (MOH) and Human Pathology**  
Kenneth Fleming, Royal College of Pathologists (confirmed)
- 12:15**      **Discussion/Questions & Answers**
- 12:30**      **Lunch at Il Patio Restaurant, Sheraton Hotel**

### 4. Risk Assessment

Moderator: Dirk Danneels, European Wax Federation

Risk assessments on mineral oils have been conducted by several regulatory bodies. In particular, the Scientific Opinion on Mineral Oil Hydrocarbons in food will be reviewed, followed by a discussion of the opportunities to strengthen the data used to support this risk assessment.

- 13:30**      **Mineral Oil Hydrocarbons in Food, Scientific Opinion of the Scientific Panel on Contaminants in the Food Chain (CONTAM)**  
Marco Binaglia, European Food Safety Authority (confirmed)
- 13:50**      **Interpretation of Exposure Data and Path Forward**  
David Tennant, Food Chemical Risk Analysis
- 14:10**      **Panel Discussion**  
Peter Boogaard, Shell (confirmed)  
Jean-Pierre Cravedi, French National Institute for Agricultural Research (confirmed)  
David Tennant, Food Chemical Risk Analysis (confirmed)  
Diane Benford, UK Food Standards (confirmed)

## 5. Regulatory Framework

Moderator: Dirk Danneels, European Wax Federation

Mineral oils used in food and non-food applications are subject to regulation by several pieces of legislation. Consideration will be given to the potential overlaps and gaps among these different regulatory frameworks.

- 14:40**      **Comparison of Various European Food Regulations**  
Rachida Semail, Keller and Heckman (confirmed)
- 15:00**      **Understanding the Requirements of EU Food Contact Regulations (Non-plastic material)**  
Annette Schaefer, DG SANCO (confirmed)
- 15:20**      **Question and Answers**
- 15:30**      **Ice Cream Social / Coffee Break**

## 6. Analytical Methods for Mineral Oils

Moderator: Dirk Danneels, European Wax Federation

Various test methods exist for the analysis of mineral oils. Considering the limitations and uncertainties of the various methods, the applicability of the most appropriate method(s) will be discussed.

- 15:45**      **The Composition and Analyses of Oil Fractions Present in Food**  
Jan Beens, Consultant, University of Amsterdam and Free University of Amsterdam (confirmed)
- 16:05**      **Latest Developments on MOSH/MOAH Methods**  
Philipp Stolper, FOGRA (confirmed)
- 16:25**      **Safety of Recycled Paperboard: Mineral Oil Content Determination, Migration to Food, and Clean-Up Strategies**  
Ilaria Braschi, University of Bologna (confirmed)
- 16:45**      **Panel Discussion**  
**Consider EFSA recommendation on need for certified reference standards and reference materials for Mineral Oils**  
Jan Beens (confirmed)  
Stuart Forbes (confirmed)  
Philipp Stolper (confirmed)
- 17:15**      **Wrap Up Day 1**  
Juan-Carlos Carrillo, Shell (confirmed)
- 17:30**      **End of Day 1**
- 19:00**      **Cocktails on the Terrace and Dinner (Sheraton Hotel)**

## Day 2: Wednesday 11 September 2013

### Day 2: Objectives and Goals

**09:00**      **Welcome and Goals of Day 2**  
Juan-Carlos, Carrillo, Shell (confirmed)

### Breakout Sessions

Moderator: Dirk Danneels, European Wax Federation

**09:15**      **Discussion Group 1: Toxicology and Risk Assessment**

Peter Boogaard / Jean-Pierre Cravedi

**Discussion Group 2: Analytical Methods**

Stuart Forbes / Jan Beens / Philipp Stolper

**Discussion Group 3: Downstream Users**

Erich Frank / Jan Cardon / Andre Adam / Jonathan Briggs

### Report back from Discussion Groups

**10:45**      **Toxicology and Risk Assessment**

**Analytical Methods**

**Downstream Users**

**11:45**      **Lunch at Il Patio Restaurant, Sheraton Hotel**

### Discuss recommendations from MOCRINIS Workshop

**13:00**      Barry Simpson, (confirmed)

### Wrap up / agreement on Final Recommendations

**14:00**      Juan-Carlos Carrillo, Shell (confirmed)

**14:45**      **End of Day 2 MOCRINIS Workshop**

**Safe Travels**