



Food
Packaging
Forum

Workshop

Threshold of Toxicological Concern (TTC)
for risk assessment of food contact material chemicals

17 October 2013

Workshop – 17 Oct 2013



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About FPF The Food Packaging Forum's overall objective is to make scientific facts and expert opinions about food contact materials and health issues accessible to all stakeholders. The Food Packaging Forum is an independent, charitable non-profit organization. We communicate high-quality scientific information and enable a balanced dialogue on the issue of healthy food contact materials.

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Threshold of Toxicological Concern (TTC)
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Four Points by Sheraton
Sihlcity, Kalandergasse 1, Zurich, Switzerland

What is the TTC? The Threshold of Toxicological Concern, short TTC, is a concept for assessing the risk of single chemical exposure to human health. It establishes generic exposure thresholds below which chemicals are assumed to be safely used over a whole life time. Thresholds are based on a compound's two dimensional chemical structure. Under the concept, carcinogenicity is considered the most severe effect, yet also other chronic toxicity endpoints are covered. In the absence of toxicological data, regulators, academic scientists and industry experts are using the TTC to perform chemical risk assessments.

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Aim of the workshop The TTC is in use worldwide, therefore a balanced and science-based reassessment of the concept from a contemporary perspective is most timely and needed. This workshop will give all participants the relevant scientific background information to understand the concept, and subsequently initiate a wider discussion about the usefulness and limits to the use of the TTC for chemical risk assessment. Therefore, the workshop is also an excellent basis for discussions on the use of the TTC for assessing chemical safety beyond food contact materials.

Who should attend The workshop offers a platform for balanced information and scientific debate. It is relevant for decision makers and scientific experts working on food contact materials and health, but also those interested in chemical safety in general. It addresses scientists from regulatory authorities, academic research, the food and food packaging industry, non-profit organizations, inter-governmental organizations, consultants and advisors. A discount will be offered for students.

Discussing the TTC is timely Various European authorities have recently published on the TTC. In June 2012, the European Commission's Scientific Committees SCCS, SCHER and SCENIHR published a scientific opinion on "Use of the Threshold of Toxicological Concern (TTC) Approach for Human Safety Assessment of Chemical Substances with focus on Cosmetics and Consumer Products". The European Food Safety Authority (EFSA) made their "Scientific Opinion on Exploring options for providing advice about possible



human health risks based on the concept of Threshold of Toxicological Concern (TTC)” publicly available in July 2012. Both reports give green light for the use of the TTC as risk assessment tool in the absence of suitable toxicological data, however limiting its application for food contact materials to compounds that do not require explicit authorization (EFSA). For example, in the EFSA “External Scientific Report of ESCO WG on non-plastic Food Contact Materials” (2011) use of the TTC is recommended for substances “where little or no toxicological data are available”. The TTC is further suggested for the risk assessment of non-intentionally added substances (NIAS): impurities, reaction and breakdown products of plastics manufacture, based on the requirements in the European Plastics Regulation (EC 10/2011).

Chairs

Prof. Thomas Backhaus, University of Gothenburg, Sweden

Second chair to be confirmed



Program

08:00 Registration and Coffee

08:30 Welcome, introduction and history of the TTC

Dr. Jane Muncke,
Food Packaging Forum

09:00 Chronic carcinogenicity testing

Dr. James Huff,
National Institutes of Environmental Health Sciences NIEHS, USA

09:30 Cramer classes in the TTC – fit for purpose?

Dr. Susan Barlow,
*Consultant and former member of EFSA's Scientific Committee and
its TTC working group*

**10:00 Making TTC fit for application –
Chemical domain, in silico models and weight of evidence**

Prof. Gerrit Schürmann,
*Helmholtz Centre for Environmental Research UFZ, and
Technical University Bergakademie Freiberg, Germany*

10:30 Coffee break

11:00 Chronic toxicity testing

Expert to be confirmed

11:30 Safety factors in chemical risk assessment

Prof. Andreas Kortenkamp,
Brunel University, UK

12:00 Practical need for TTC in the US

Prof. Joseph H. Hotchkiss,
Michigan State University, USA

12:30 Lunch



13:30 Using the TTC in Europe for evaluation of substances ingested at low levels through food: Challenges and perspectives

Dr. Alexandre Feigenbaum,
RSafe

14:00 Mixture toxicity and the TTC

Prof. Thomas Backhaus,
University Gothenburg, Sweden

14:30 Low dose effects, non-monotonic dose responses and endocrine disrupting chemicals

Dr. John Peterson Myers,
Environmental Health Sciences, USA

15:00 Coffee break

15:30 Decision making under uncertainty: A view from philosophy

Dr. Karim Bschr,
Swiss Federal Institute for Technology ETH Zurich, Switzerland

16:00 Summary and outlook: existing needs and scientific issues

PD Dr. Martin Scheringer,
Swiss Federal Institute for Technology ETH Zurich, Switzerland

16:20 Discussion

led by Prof. Thomas Backhaus and
Dr. Jane Muncke

17:30 Adjourn

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How to get there

Address: Four Points by Sheraton
Kalandergasse 1, CH-8045 Zurich

From the Central Station:

Tram 13 (direction 'Albisgütli') to the stop 'Sihlcity Nord' (approx. 10 min.)

From Zurich Airport:

With any train or S-Bahn to the Central Station (Zurich HB), then as described above (approx. 30 min)

Accommodation

A large variety of accommodation is available in Zurich city.

At the conference location a number of rooms have been reserved for Workshop participants (reduced rates may be obtained with the promotional code that will be sent to you after successful registration):

Four Points by Sheraton
Kalandergasse 1
CH-8045 Zurich
Tel.: +41 44 554 0000
www.fourpointssihlcity.com

For further options you may visit:
www.zuerich.com/en/Visitor/accommodation.html
www.trivago.ch

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