



EU Collaboration on assessment of Bisphenols

Claudia Roncancio

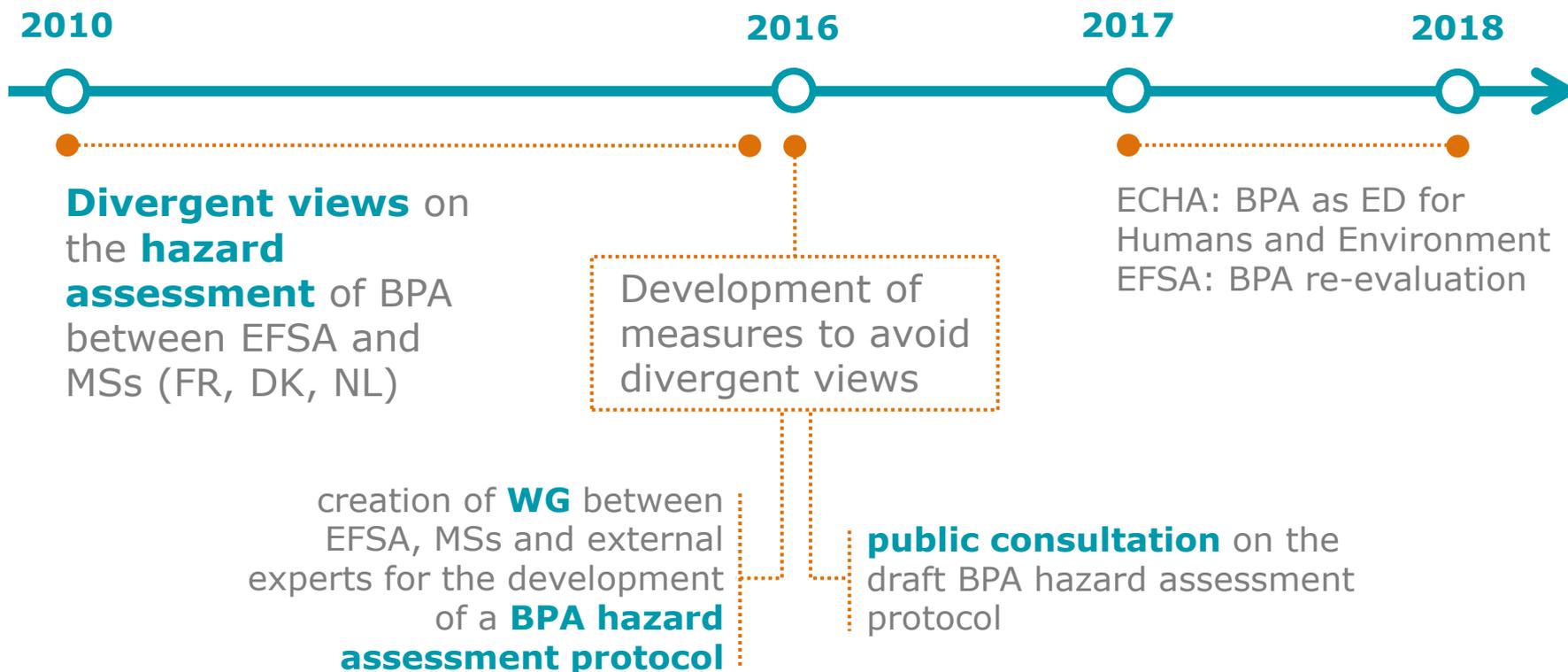
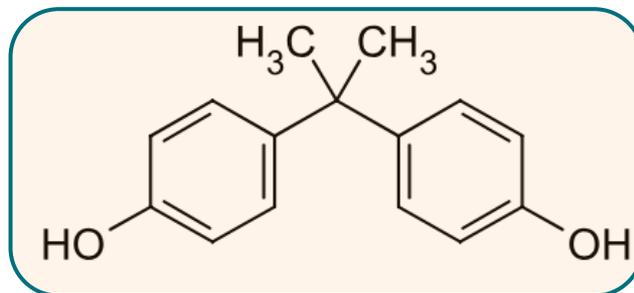
Head of FIP Unit

17 September 2018

OUTLINE

- **Background:** past work and divergences on assessment of **Bisphenol A** (BPA)
- **Current work:** assessment of **Bisphenol S** (BPS)
 - *a case study for a broader cooperation?*
- **Future tasks:** assessment of all **other bisphenols**
 - *need for a more effective collaboration on assessment of Bisphenols?*

Bisphenol A (BPA) – divergent views



Bisphenol S (BPS) – current work

- BPA and **BPS** under EFSA's Food Contact Materials remit
- EC aware of current work on BPS and liaison between authorities on possible co-operation



- BPS Registered under **REACH**
- BPS placed on the Community Rolling Action Plan (**CoRAP**) list for **Substance Evaluation** as **suspected CMR** and **potential ED**

EU Member States



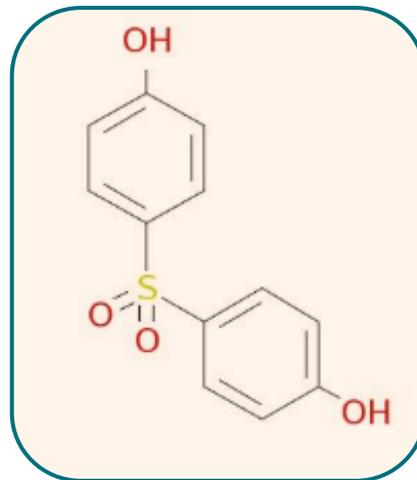
- **Substance Evaluation** of BPS by **Belgium**
- **BPS new toxicological and exposure data DL: 20.09.2018** but delay is expected



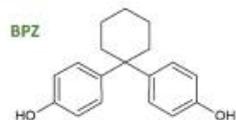
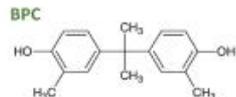
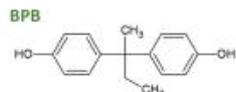
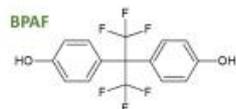
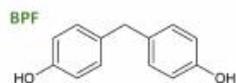
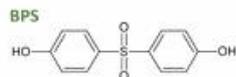
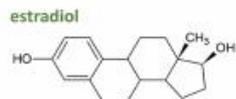
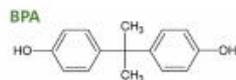
- Expected EC mandate to **re-evaluate BPS** as **Food Contact Material**
- Communication with ECHA, MS and Industry to obtain the new data generated

BPS: a case study for a broader cooperation?

- **EFSA** proposes to align the **evaluation of the new studies** generated under REACH **with Belgium and ECHA**
- A **BPS Task Force** (Belgium, ECHA, EFSA, other MSs?) could promote interagency and member states' cooperation and engagement while avoiding duplication of work and possible divergent opinions



BPA, BPS, ... and what is next?



CHEMTrust

Protecting humans and wildlife from harmful chemicals

From BPA to BPZ: a toxic soup?

How companies switch from a known hazardous chemical to one with similar properties, and how regulators could stop them

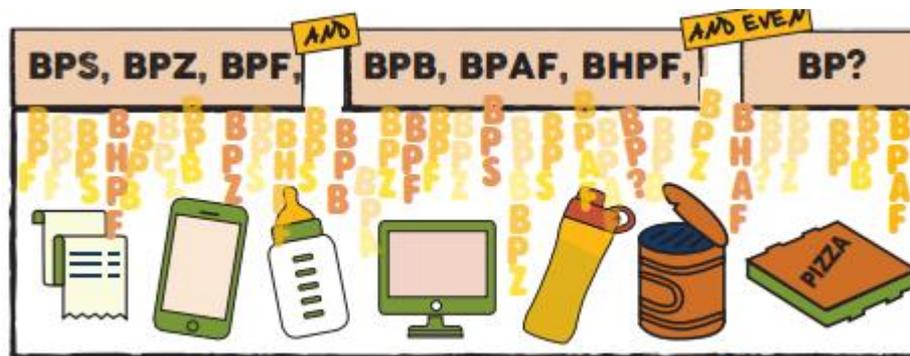


Figure 1: Structures of selected bisphenols (estradiol given for reference)

- <http://www.chemtrust.org/wp-content/uploads/chemtrust-toxicsoup-mar-18.pdf>

ECHA: current work on bisphenols/1

- Further data generation and assessment
 - Evaluation processes
 - Assessment of ED properties: in addition to BPA and BPS, the ED expert group has also discussed BPM (BE), DGEBA and TBBPA (both from DK), TMBPF (FR)

- Hazard identification
 - Harmonised classification
 - E.g 2,2-bis(4'-hydroxyphenyl)-4-methylpentane as Repro 1B
 - Identification of substances of very high concern (SVHC)
 - 2,2-bis(4'-hydroxyphenyl)-4-methylpentane currently in the identification process

ECHA: current work on bisphenols/2



Commission requests ECHA to conduct a market research on the use of BPA and alternatives in thermal paper *



Second report published

2016

2017

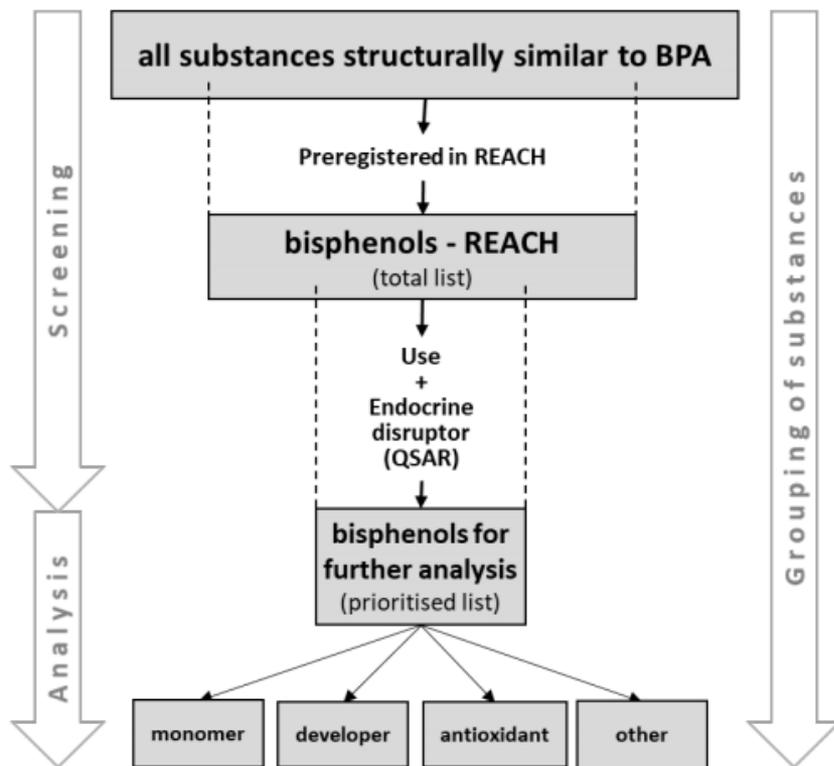
2018

First report published



*https://echa.europa.eu/documents/10162/22863068/bpa_in_thermal_paper_report_en.pdf/0d93cd76-345e-2ed4-698f-a3beaea6d755.

KEMI: grouping approach on Bisphenols



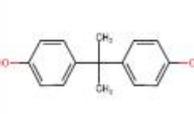
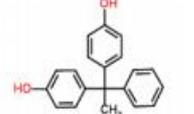
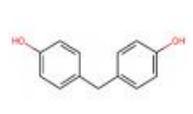
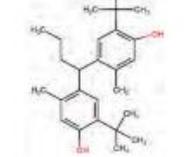
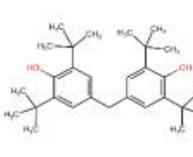
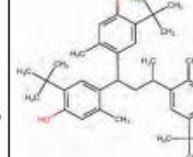
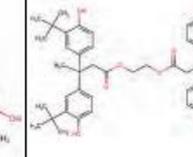
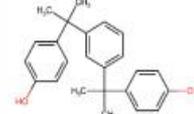
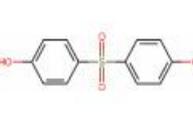
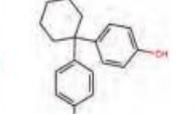
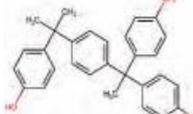
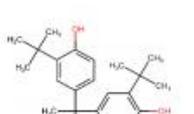
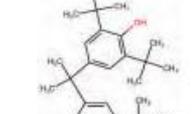
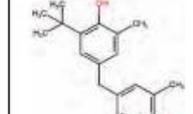
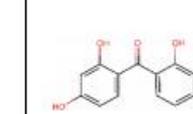
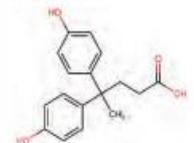
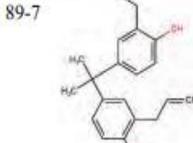
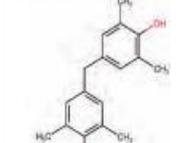
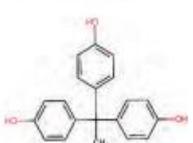
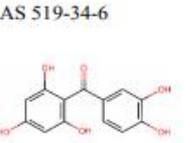
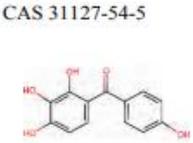
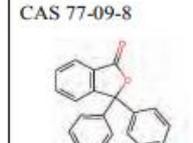
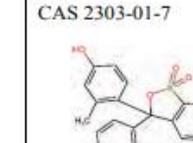
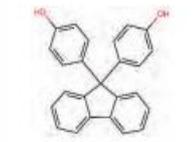
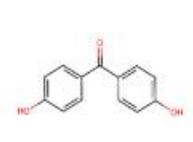
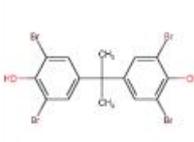
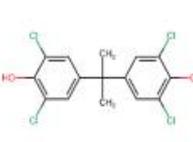
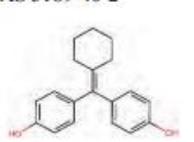
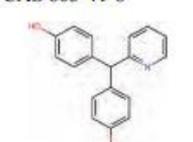
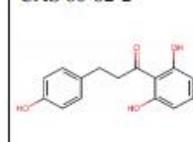
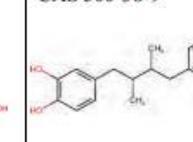
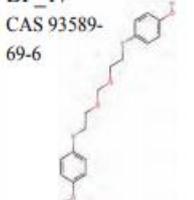
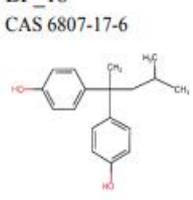
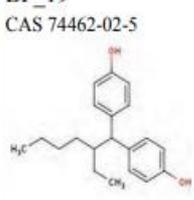
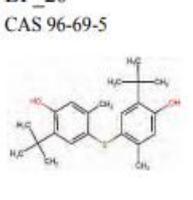
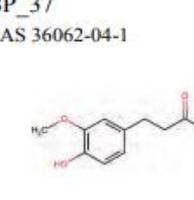
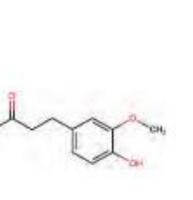
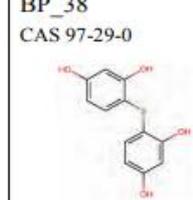
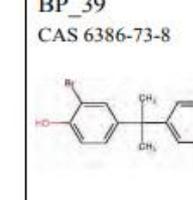
KEMI
 Swedish Chemicals Agency

Grouping of chemical substances in the REACH and CLP regulations

Figure 9. Method for identifying and prioritising bisphenols. 39 bisphenols were subject to a more detailed review.

- <https://www.kemi.se/en/global/rapporter/2017/rapport-5-17-bisfenoler-en-kartlaggning-och-analys.pdf>
- <https://www.kemi.se/global/pm/2018/pm-2-18-grouping-of-chemical-substances-in-the-reach-and-clp-regulations1.pdf>

KEMI: grouping approach on Bisphenols

BP_01 (BPA) CAS 80-05-7 	BP_02 (BPAF) CAS 1478-61-1 	BP_03 (BPAP) CAS 1571-75-1 	BP_04 (BPF) CAS 620-92-8 	BP_21 CAS 85-60-9 	BP_22 CAS 118-82-1 	BP_23 CAS 1843-03-4 	BP_24 CAS 32509-66-3 
BP_05 (BPM) CAS 13595-25-0 	BP_06 (BPS) CAS 80-09-1 	BP_07 (BPZ) CAS 843-55-0 	BP_08 CAS 110726-28-8 	BP_25 CAS 79-96-9 	BP_26 CAS 13676-82-9 	BP_27 CAS 96-65-1 	BP_28 CAS 131-55-5 
BP_09 CAS 126-00-1 	BP_10 CAS 1745-89-7 	BP_11 CAS 5384-21-4 	BP_12 CAS 27955-94-8 	BP_29 CAS 519-34-6 	BP_30 CAS 31127-54-5 	BP_31 CAS 77-09-8 	BP_32 CAS 2303-01-7 
BP_13 CAS 3236-71-3 	BP_14 CAS 611-99-4 	BP_15 CAS 79-94-7 	BP_16 CAS 79-95-8 	BP_33 CAS 5189-40-2 	BP_34 CAS 603-41-8 	BP_35 CAS 60-82-2 	BP_36 CAS 500-38-9 
BP_17 CAS 93589-69-6 	BP_18 CAS 6807-17-6 	BP_19 CAS 74462-02-5 	BP_20 CAS 96-69-5 	BP_37 CAS 36062-04-1 	BP_38 CAS 97-29-0 	BP_39 CAS 6386-73-8 	BP_39 CAS 6386-73-8 

Regulatory status/actions under REACH and CLP for registered substances

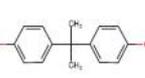
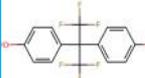
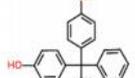
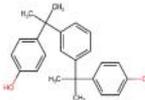
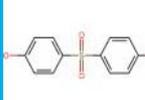
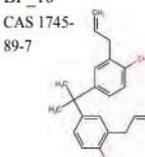
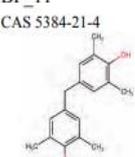
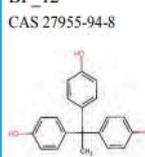
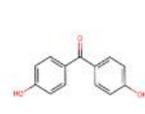
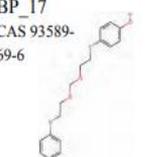
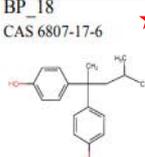
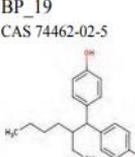
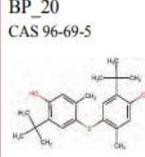
Under SEV or CoRAP

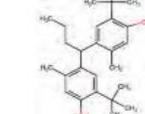
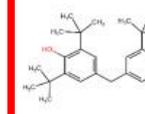
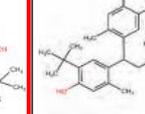
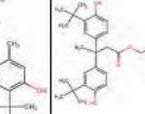
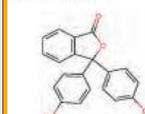
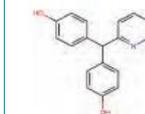
RMOA under development

Candidate list

SVHC intention

Restriction (Annex XVII)

BP_01 (BPA) CAS 80-05-7 ★ 	BP_02 (BPAF) CAS 1478-61-1 	BP_03 (BPAP) CAS 1571-75-1 	
BP_05 (BPM) CAS 13595-25-0 ★ 	BP_06 (BPS) CAS 80-09-1 		
	BP_10 CAS 1745-89-7 	BP_11 CAS 5384-21-4 	BP_12 CAS 27955-94-8 
BP_13 CAS 3236-71-3 	BP_14 CAS 611-99-4 		
BP_17 CAS 93589-69-6 	BP_18 CAS 6807-17-6 ★ 	BP_19 CAS 74462-02-5 	BP_20 CAS 96-69-5 

BP_21 CAS 85-60-9 	BP_22 CAS 118-82-1 	BP_23 CAS 1843-03-4 	BP_24 CAS 32509-66-3 
		BP_31 CAS 77-09-8 ★ ★ ★ 	
	BP_34 CAS 603-41-8 		

CLH

- ★ Repr 1B
- ★ Repr. 2
- ★ Carc 1B
- ★ Muta 2

ANSES assessment of Bisphenols

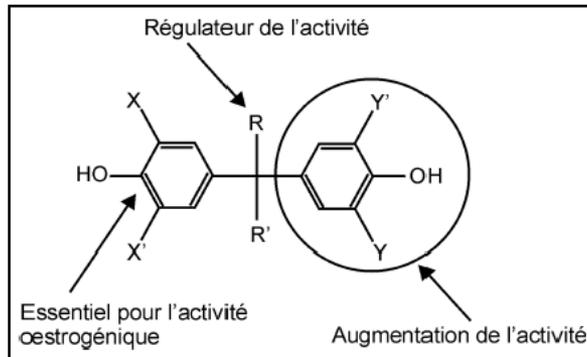
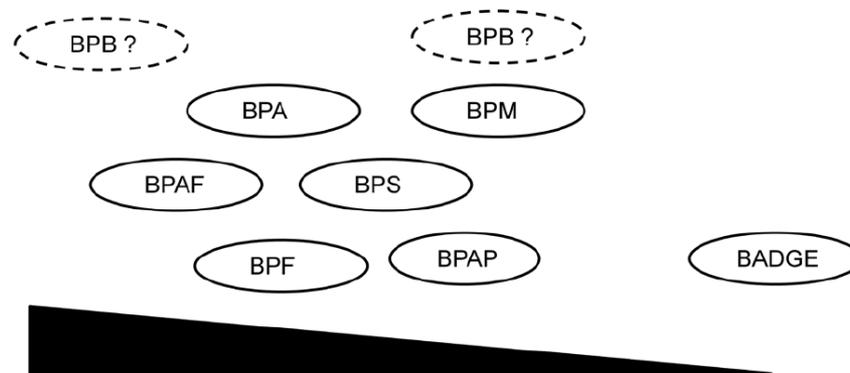


Figure 18 : Relations entre structure et activité oestrogénique pour les bisphénols (Figure extraite du rapport d'expertise collective de l'Inserm « Reproduction et environnement », 2011)



Potentiel oestrogénique

Figure 19 : Illustration de l'activité oestrogénique des différents composés de la famille des bisphénols.

- [“Assessment of the hazards of bisphenol-group compounds” in 2013](#)
- [Substances reprotoxiques et perturbateurs endocriniens Composés de la famille des bisphénols : bisphénols M, S, B, AP, AF, F et BADGE Rapport d'expertise collective, 2013](#)
- [major research programme announced by ANSES](#)

DG Santé activities

- **DG Santé commitment** to investigate the future of BPA alternatives with a survey with IND on their potential uses
- DG Santé bilateral with EFSA supportive of a **more effective collaboration on assessment of Bisphenols**

CONCLUSIONS

- **BPS Task Force** as a **case study** which could lead to a broader EU collaboration on bisphenols later
- Advantages of an ***EU Collaboration on assessment of Bisphenols***
 - Better coordination of different activities on bisphenols alternatives, avoiding duplication of work and divergent opinions
 - Promote inter-agency and member states' cooperation and engagement
 - A single EU voice to consumers
- ***What's your view?***