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Regulatory approaches under REACH and other regulations (cosmetics, medical devices, food contact materials) - An overview of experiences

13 March 2024, GT Advanced Course, 9th German Pharm-Tox summit, Munich Dr Michaela Moors-Frericks

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worldwide knoell A TOPIC TO CONSIDER **ENDOCRINE DISRUPTORS**

Outlook

Background:

- Chemicals: REACH Regulation (EC) No 1907/2006
- Cosmetics: Regulation (EC) No 1223/2009
- Food Contact Materials: Regulation (EC) No 1935/2004
- Medical Devices: Regulation (EU) 2017/745
- Conclusions on ED assessment
- Experiences within knoell



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REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 18 December 2006

concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

STANDARD INFORMATION REQUIREMENTS (Annex VII – Annex X)

Required endpoints on toxicological information (Column 1 of the respective Annex):

- 8.1 Skin corrosion/irritation
- 8.2 Serious eye damage/irritation
- 8.3 Skin sensitisation
- 8.4 Mutagenicity
- 8.5 Acute toxicity
- 8.6 Repeated dose toxicity (sub-acute, sub-chronic and chronic toxicity)
- 8.7 Reproductive toxicity (Screening studies, Developmental toxicity and EOGRTS)
- 8.8 Toxicokinetics

REACH Regulation has not yet been updated to establish data requirements for the identification of ED

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ED and REACH dossiers



Technical features to submit relevant information on ED are implemented although ED is not yet specified as data requirement;



IUCLID quality warning on Repeated Dose Toxicity: "You are expected to cover the following key investigations: [....] endocrine findings, [...]". (QLT229)

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Is the ED hazard assessed under REACH?

Example 1: Propylparaben

https://www.echa.europa.eu/web/guest/substance-information/-/substanceinfo/100.002.098

Propyl 4-hydroxybenzoate



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- Is the ED hazard assessed under REACH?
- Example 2: Bisphenol A
- https://www.echa.europa.eu/web/guest/substance-information/-/substanceinfo/100.001.133
- 4,4'-isopropylidenediphenol



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Evaluation of ED properties under REACH takes place, but how?

Step 1	Step 2	Step 3	Step 4	Step 5			
Identification as ED	Identifcation of SVHC	Inclusion of the REACH candidate list	Inclusion on Authorisation list (Annex IV)	Authorisation/ Restriction			
	Reason for inclus (REACH Article 5	sion on REACH candida 7(f))	ate list				
English Carcinogenic (Article 57a)							
	Mutagenic (Article 57b)	Mutagenic (Article 57b)					
	Toxic for reproduction (Article 57c)						
	PBT (Article 57d)	PBT (Article 57d)					
	vPvB (Article 57e)						
	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)						
	Respiratory sensitising propertie	Respiratory sensitising properties (Article 57(f) - human health)					
	Specific target organ toxicity after	Specific target organ toxicity after repeated exposure (Article 57(f) - human health)					
	Equivalent level of concern having probable serious effects to human health (and/or) the environment (Article 57f)						

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ED assessment under REACH: REACH candidate list



REACH candidate list (Update of Candidate list on 17 Jan 2023):

https://echa.europa.eu/de/candidate-listtable?p_p_id=disslists_WAR_disslistsportlet&p_p_lifecycle=1&p_p_state=normal&p_p_mode=view&_disslists_WAR_disslistsportlet _javax.portlet.action=searchDissLists

- 22 substances have been identified as SVHC based on ED properties
- Human Health: 6 substances
- Environment: 16 substances
- Examples of agreed cases:

Diethylhexyl phthalate (DEHP) Bisphenol A Dicyclohexyl phthalate (DCHP)

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ED assessment under REACH: Regulatory Consequences

- Substances identified as ED undergo authorisation under REACH (hazard-based approach)
 - uses of the substance need to be approved on the authorisation list (Annex XVI)
 - after the Sunset date, ED may only be used if authorisation has been granted
- Substances can be authorised when
 - the risk for a specifc use is adequately controlled ("adequate control route")
 - socio-economic benefits outweigh the risk (SEA route)

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▶<u>B</u> REGULATION (EC) No 1223/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on cosmetic products

Article 15:

4. When Community or internationally agreed criteria for identifying substances with endocrine-disrupting properties are available, or at the latest on 11 January 2015, the Commission shall review this Regulation with regard to substances with endocrine-disrupting properties.

Annex I: Cosmetic Product Safety report

• "the toxicological profile of substance contained in the cosmetic product for all relevant toxicological endpoints". A particular focus on local toxicity evaluation (skin and eye irritation), skin sensitisation, and in the case of UV absorption photo-induced toxicity shall be made.

Cosmetic Product Regulation does not explicitly define ED as relevant toxicological endpoint, BUT ...

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Data obtained from in vivo testing should only be provided if the data were already available before the animal testing ban or obtained for the purpose of demonstrating compliance with other (non-cosmetic) legislations (e.g. REACH).

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- ED properties can be assessed only in a stepwise approach due to the animal test ban under the Cosmetic Regulation using data generated outside the cosmetic field or using NAMs
- For a new cosmetic ingredient, characterisation will be limited to level 1 and level 2 studies defined in OECD's conceptual framework 150



"While the results from levels 1 and 2 approaches can be indicative of endocrine activity of a cosmetic ingredient, they will not definitively inform whether the substance will cause adverse effect(s) in the intact organism to be regarded an ED."

"Due to the ban of animal testing, the available data on cosmetic ingredients usually cannot comply with the criteria laid down in the OECD conceptual framework."

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ED assessment under Cosmetic Product Regulation https://single-market-economy.ec.europa.eu/sectors/cosmetic-products-specific-topics/endocrinedisruptors_en

- The Cosmetic Product Regulation includes a system of restrictions on and bans of certain substances in cosmetics.
- The restrictions are based on a risk assessment performed by the SCCS



Step 2

- Based on the SCCS opinion, the Commission takes action to prohibit or restrict the use of ED substances in cosmetics.
- SCCS Notes from December 2023: 14 substances have been assessed for ED properties by the SCCS
 - Examples: Resorcinol, Propylparaben, Triclosan, Benzyl salicylate

Step 1

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Step 3

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ED assessment under Cosmetic Product Regulation



- List of Annexes (Regulation (EC) 1223/2009):
 - Annex II: List of substances prohibited in cosmetic products

Annex III: List of substances which cosmetic products must not contain except subject to the restriction laid down



Annex IV: List of colourants allowed in cosmetic products

Annex V: List of preservatives allowed in cosmetic products

Annex VI: List of UV filters allowed in cosmetic products

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ED assessment under Cosmetic Product Regulation

- Example: Propylparaben
- REACH: Under assessment for ED; already concluded for environment
- Cosmetics: SCCS Opinion

Conclusion SCCS:

On the basis of the safety assessment of Propylparaben, and considering the concerns related to potential endocrine disrupting properties, the SCCS has concluded that Propylparaben is safe when used as a preservative in cosmetic products up to a maximum concentration of 0.14 %.

The available data on Propylparaben provide some indications for potential endocrine effects. However, the current level of evidence is not sufficient to regard it as an endocrine disrupting substance, or to derive a toxicological point of departure based on endocrine disrupting properties for use in human health risk assessment.

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OPINION ON Propylparaben (PP)

ED under Cosmetic Product Regulation: Regulatory consequences

- Substances identified or suspected as ED for human health are assessed by the SCCS
 - Risk assessment is performed
 - The safety in individual products is judged based on MoS
 - Substances are included in the respective Annex of the Cosmetic Regulation
 - EDs can be prohibited (Annex II) or allowed/restricted (Annex III VI) in specific cosmetic products
 - Maximum concentrations are defined if EDs are allowed to be used in cosmetic products

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Migration < 0.05 mg/kg food / food simulant:

Plastic materials must be manufactured with authorized substances included within the Union list (EU) No 10/2011 Annex 1 and its amendments.

2 constaviate tests (OECD 171 / 197)

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The data requirements for hazard assessment to include a substance into the Union list depend on the migration of a substance (according to EFSA Note for guidance for the preparation of an application for the safety assessment of a substance to be used in plastic food contact materials, 2020)

Migration < 0.03 mg/kg 1000 / 1000	Sinulant.	z gene	lovicity tests	(02004717407)		
Migration 0.05 – 5 mg/kg food / foo	d simulant:	genoto	oxicity testing	+			
		90-day	v oral toxicity s	study (OECD 408	3)		
ED testing as such is not included in	n the data req	uirem	ents (plastic	food contact n	nateria	ls)	
Migration 5 – 60 mg/kg food / food	simulant:	genoto toxicity	oxicity testing / study +	/ 90-day oral			
		Studie	s on ADME				
		Studie toxicity	s on reproduc /	tion and develop	mental		
		Studie carcine	s on long-tern ogenicity	n toxicity /			
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ED in the Regulation of Food Contact Materials

EFSA Scientific Opinion 'Recent developments in the risk assessment of chemicals in food and their potential impact on the safety assessment of substances used in food contact materials (2016))

Tier number and specifications	Toxicity data require	d	Additional co	nsiderations	
Tier 1: Human exposure up to 1.5 μg/kg bw per day or if The substance is classified as Cramer class I and exposure is less than 30 μg/kg bw per day	 Genotoxicity studies Available information including an appropriate literature search Tier number and Toxicity data requirements 		In general, no other toxicity studies are required below this threshold. Exceptions are: (1) if there are existing data indicating the potential to affect endocrine or neural systems; (2) for substances with a high potential to accumulate in humans; (3) for nanomaterials, even if the non-nanoform material has been evaluated and approved for FCM. uired Additional considerations		<i>ED testing as such is not included in the data requirements, but the EFSA recommends to consider endocrine</i>
	Tier 2: As above, plus: Human exposure from 1.5 to 80 µg/kg bw per day As above, plus: - Extended 90-day oral toxicity study in rodents	y oral toxicity	A study on absorption, distribution, metabolism and excretion (ADME) should be used to assess the potential for accumulation in humans of substances for which such a potential could be anticipated. If there are existing data indicating endocrine activity suggesung potenuai effects from prenatal exposure, a 90-day study with a prenatal treatment period or an extended one- generation reproduction toxicity study (EOGRTS) should be considered.	potential as additional consideration which requires further testing.	
	Tier 3: Human exposure higher than 80 μg/kg bw per day	As above ^(a) , plus: - Study on ADME - Studies on repro- developmental to - Studies on long- toxicity/carcinog	oduction and xoxicity -term genicity	If there are existing data indicating endocrine activity suggesting potential effects from prenatal exposure, a chronic study with a prenatal treatment period or an EOGRTS should be considered.	

(a): The extended 90-day oral toxicity study required in tier 2 might not be necessary as it is covered by the long-term testing.

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ED assessment for Food Contact Materials

- Example: Bisphenol A
- REACH: identified as ED for human health (and environment)
- Food Contact Materials: Regulation (EU) 2018/213 (consolidated version)

COMMISSION REGULATION (EU) 2018/213

of 12 February 2018

on the use of bisphenol A in varnishes and coatings intended to come into contact with food and amending Regulation (EU) No 10/2011 as regards the use of that substance in plastic food contact materials

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
FCM substance No	Ref. No	No CAS No Substance name		Use as additive or polymer production aid (yes/no)	Use as mono- mer or other starting substance or macromolecule obtained from microbial fermentation (yes/no)	FRF applicable (yes/no)	SML [mg/kg]	SML(1) [mg/kg] (Group restriction No)	Restrictions and specifications	Notes on verification of compliance
·151	13480 13607	0000080-05-7	2,2-bis(4-hydroxyphenyl) propane	no	yes	no	0,05		Not to be used for the manufacture of polycarbonate infant (¹) feeding bottles (²). Not to be used for the manufacture of polycarbonate drinking cups or bottles which, due to their spill proof characteristics, are intended for in- fants (³) and young children (⁴).	

A draft Commission Regulation (EU) on the restriction/prohibition of BPA and BPA-derivatives in (plastic) FCM has been released in 2024

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ED under the Framework for Food Contact Materials: Consequences

- Substances identified or suspected as ED can be used in Food Contact Materials (FCM)
 - Specific migration limits (SML) and restrictions are defined for individual FCM applications
 - The SML must not be exceeded

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Devices shall be designed and manufactured in such a way as to reduce as far as possible the risks posed by substances or particles, including wear debris, degradation products and processing residues, that may be released from the device.

Devices, or those parts thereof or those materials used therein that:

- are invasive and come into direct contact with the human body,
- (re)administer medicines, body liquids or other substances, including gases, to/from the body, or
- transport or store such medicines, body fluids or substances, including gases, to be (re)administered to the body,

shall only contain the following substances in a concentration that is above 0,1 % weight by weight (w/w) where justified pursuant to Section 10.4.2:

- (a) substances which are carcinogenic, mutagenic or toxic to reproduction ('CMR'), of category 1A or 1B, in accordance with Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council (¹), or
- (b) substances having endocrine-disrupting properties or which there is scientific evidence of probable serious effects to human health and which are identified either in accordance with the procedure set out in Article 59 of Regulation (EC) No 1907/2006 of the European Parliament and of the Council (²) or, once a delegated act has been adopted by the Commission pursuant to the first subparagraph of Article 5(3) of Regulation (EU) No 528/2012 of the European Parliament and the Council (³), in accordance with the criteria that are relevant to human health amongst the criteria established therein.

<u>The Regulation on Medical</u> <u>Devices refers to the REACH and</u> <u>Biocidal Product Regulation (BPR)</u>

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- EDs can be used in Medical Devices in concentrations above 0.1% (w/w) when a proper justification can be provided (Annex I, Chapter II Section 10.4.2 of Regulation (EU) 2017/745)
- 10.4.2. Justification regarding the presence of CMR and/or endocrine-disrupting substances

The justification for the presence of such substances shall be based upon:

- (a) an analysis and estimation of potential patient or user exposure to the substance;
- (b) an analysis of possible alternative substances, materials or designs, including, where available, information about independent research, peer-reviewed studies, scientific opinions from relevant scientific committees and an analysis of the availability of such alternatives;
- (c) argumentation as to why possible substance and/ or material substitutes if available, or design changes, if feasible, are inappropriate in relation to maintaining the functionality, performance and the benefit-risk ratios of the product; including taking into account if the intended use of such devices includes treatment of children or treatment of pregnant or breastfeeding women or treatment of other patient groups considered particularly vulnerable to such substances and/or materials; and
- (d) where applicable and available, the latest relevant scientific committee guidelines in accordance with Sections 10.4.3. and 10.4.4.

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ED assessment in Medical Devices

- For Medical Devices, the exposure of patients and users towards EDs has to be considered to justify their presence
 - A risk assessment is required based on a step-wise approach



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ED assessment in Medical Devices: Examples

Example: Phthalates

Di-(2-(ethylhexyl) phthalate (DEHP) is widely used in Medical Devices (such as blood bags, nutrition pockets, tubing, catheters and respiratory masks)

The use of DEHP is restricted under REACH (Annex XIV): https://www.echa.europa.eu/web/guest/substances-restricted-under-reach/-/dislist/details/0b0236e1807e2d0d





DEHP can still be used in Medical Devices, the EU has postponed the ban in Medical Devices in November 2023 Latest application date is January 2029; Sunset date is July 2030

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- At concentrations > 0.1%, a justification has to be provided
- The risk assessment has to prove a controlled risk
- REACH Authorisation: The *Latest application date* and *Sunset date* do not apply for Medical Devices

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- ED assessment of chemicals registered under REACH takes place, although the REACH Regulation and its Annexes have not been updated to establish the data requirements to specifically test for ED properties (mechanistic data)
- Regulation of EDs is based on the identification as Substance of Very High Concern (SVHC) alongside with CMR substances. This results initially in a hazard-based approach
- Several substances have been identified as SVHC based on ED properties and are inlcuded on the candidate list for authorisation
- Autorisation/Restriction is the regulatory consequence for chemicals identified as EDs

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- ED assessment is included in the safety assessment of cosmetics as "specific investigation"
- ED properties can be assessed only in a stepwise approach due to the animal test ban under the Cosmetic regulation using data generated outside the cosmetic field or using NAMs
- For a new cosmetic ingredient, characterisation will be limited to level 1 and level 2 studies defined in OECD's conceptual framework 150
 - Due to the ban of animal testing, the available data on cosmetical ingredients usually cannot comply with the criteria laid down in the OECD conceptual framework.
- Safety assessment: SCCS treat ED like other substances of concern for human health and therefore carry out risk assessment

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Food Contact Materials and ED

EDs can be allowed as Food Contact Material when the SML is not exceeded by the migration of the ED substance (risk-based approach)

Medical Devices and ED

- The Regulation on Medical Devices directly refers to REACH and BPR for the endpoint ED
- EDs can be contained in Medical Devices when their use is justified. Exposure shall be considered (risk-based approach)

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worldwide registration ED under the Chemical Strategy for Sustainability (CSS) knoel ED assessment relevant across all regulations Europear Commission **Chemicals Strategy for Sustainability** Example: DEHP Towards a toxic-free environment Identified as SVHC based on Reproductive and ED properties under REACH

All regulatory areas are affected on EU Food Contact Materials Medical Devices Chemicals Cosmetics level, although ways Listed on Annex II Latest application date: Latest application date: Latest application date: of derogation apply 21 August 2013 (CMR properties) 14 June 2023 01 January 2029 to Food Contact Materials and Sunset date: Prohibited in Sunset date: Sunset date: Medical Devices 21 February 2015 cosmetics 14 December 2024 1 July 2030

Included in Annex XIV (Authorisation list)

ED assessment relevant across regulations One substance, one acrossment"

- "One substance, one assessment"
 - The assessment of ED properties is mostly based on the data available under REACH, BUT
 - Different Committees may be involved in the assessment
 - REACH: eMember State; ED expert group, RAC and SEAC
 - Cosmetics: SCCS
 - Different approaches may be followed
 - REACH: Hazard-based approach
 - Cosmetics/FCM and MD: Risk-based approach



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- The Commission will ensure that EDs are banned in consumer products as soon as they are identifed, allowing their use only where it is proven to be essential for society
 - EDs can be banned under REACH and other Regulations, but their use may also be authorised/restricted/allowed in Cosmetics, Food Contact Materials and Medical Devices and under REACH

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The Commission will ensure that sufficient and appropriate information is made available to authorities

identifed, allowing their use only where it is proven to be essential for society

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worldwide registration knoell **Assessment approach** Level 1 Level 2 Level 3 Level 4 Level 5 In vivo studies -**Existing and new** In vivo studies – In vitro studies – **EOGRTS** and non-testing data mechanistic data mechanistic data **OECD 416** Food Contact Materials Chemicals Cosmetics **Medical Devices** Level 1 Level 1 Reference to Reference to Level 4 Level 2, reference **REACH** dossier **REACH** dossier Level 5 to other regulations Mechanistic data missing Data on adversity missing

The data basis for ED assessment is not harmonised among the different regulatory areas. The data packages do not comply with the criteria laid down in the OECD conceptual framework."

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ED under the Chemical Strategy for Sustainability (CSS)

- ED assessment relevant across regulations
- "One substance, one assessment"
- The Commission will ensure that EDs are banned in consumer products as soon as they are identifed, allowing their use only where it is proven to be essential for society
- The Commission will ensure that sufficient and appropriate information is made available to authorities
 - <u>REACH (planned updates NOT included</u> in the current European commission work programme!):
 - Update data requirements for screening of ED activity?

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Commission

Chemicals Strategy for Sustainability

Towards a toxic-free environment







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- ED assessment is conducted under REACH and other Regulations by the authorities
 - although no clear assessment approaches are defined under REACH and the other regulations
 - assessment is performed based on the existing data packages

- ED assessment is carried out on voluntary basis by registrant(s)
 - although the approach are not clearly defined under REACH and the other regulations
 - assessment is based on the existing data
 - level 4 and level 5 studies

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Experiences within knoell

- Companies start to screen the REACH dossier(s) in regard to ED
 - We develop screening approaches to identify "red-flags"
- ED assessment performed by knoell for Chemicals:
 - We draw on our experience with active substances and combine the different regulations
 - For ED assessment, we follow the ECHA/EFSA Guidance
 - We "use" the existing templates for Biocides/PPP for ED assessment of Chemicals

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Think globally, act locally - your local contact

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