BfR Workshop "Mind the Gap – Data Availability in REACH Registrations"

The Perspective from a Lead Registrant

150 years

BASF We create chemistry Edgar Leibold BASF SE Product Safety

First Steps in Dossier Preparation

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- Substance ID
- Data Gap Analysis
 - Data available



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1	Substanco:			Rolo					
2	Test Number	Annex (REACH)	Information Requirement	Rating			Data Availability		
3				IUCLID Estimated Kimisch Rating	Result	Source	Data Reference	Suppor Catego	
31	_								
32	Mammalian	Car							
33	8.1.	N	Skin intation (indicate if in vtro)					L	
34	8.2.	N	Eye initation (indicate if in vitro)			-		L	
35	831	N	Skin sensitisation					L	
36	8.4.1.	N	In vitro gene mutation study in bacteria			-		L	
31	8.4.2.	VI	In vtro cytogenicity study in mammalian cells					L	
38	8.4.3.	VI	In vitro gene mutation study in mammalian cells					<u> </u>	
39	8.4.4.	VI	Other in vio mutagenicity test: micronucleus test (OEUD 474) or ODS assay (OECD 486)						
40	8.5.1.	M	Acute toxicity, oral reute (OECD 420, 423 or 425)						
41	8.5.2.	VI	Acute texicity, inhalation						
42	8.5.3.	VI	Acute toxicity, dermal route						
43	8.6.1.a/b/c	VI	Short-term repeated dose toxicity study in rats (28 days), oral/demak/inhalation						
44	8.6.2.a/b/c	IX	Sub-chronic toxicity study (90-day) in rate, oral/dermal/inhalation						
45	8.6.3.	X	Chronic texicity (12 menths or longer), rats (Excesure/use driven)						
46	871a	M	Screening for reproduction/developmental toxicity, rats						
47	8.7.2.2	X	Developmental toxicity study, rats						
48	8.7.2.b	X	Developmental toxicity study, rabbits						
49	8.7.3/4.a	K - X	One-generation reproduction toxicity study (enhanced)						
50	8,7,3/4,5	K - X	Two-generation reproduction toxicity study						
51	8.8.1.	VI	Assessment of toxicokinetic behaviour (based on required studies)						
52	8.9.	х	Carcinogenicity study/combined chronic toxicity, rate (Exposure/use						
53			Other studies (to be listed below):					-	
54		X	Neuroloxicity					-	
55						-		<u> </u>	
56	Frotan env	Fata							
57	911	14	Short-zerm trainity testing on Darknia						
58	912	M	Grouth inhibition study on alread			1			
59	913	VI.	Shot-term taugety testing on fish					<u> </u>	
60	914	M	Activated shalos respiration inhibition testing			1		-	
61	915	X	Lonoterm trajicity testino on Darbnia, 21-days					<u> </u>	
62	9161	X	Fish aphylife state (FFLS) trainity test			1		-	
63	9.1.6.2 (or)	X	Fish short-term toxicity test on embryo and sac-fry stages	1		1			
1	R 4 F H Tabelet /Tabelez /Tabelez /Tabelez / 1								
-									





Assessment of "Data Gaps"

- Formal data gap check is easy
- When testing is not the preferred option
 - read across
 - ► QSAR
 - waiving

might become the surrogate

- considering
 - the endpoint
 - the complete phys-chem, tox and ecotox profile of the substance
 - data from structurally related substances
 - on a substance by substance basis



150 years





REACH manpower@ BASF

- REACH ressources @ BASF:
 - ▶ 50 legal entities within the EU (plus 40 outside the EU)
 - 30 REACH-coordinators in operational divisions
 - 130 substance coordinators
 - 70 toxicologists, ecotoxicologists, documentalists and experts for physico-chemical data
 - External consultants as additional support









REACH efforts@ BASF



Tier 1 Ca. 670 substances registered >1000 registrations submitted 60 % as lead or alone Tier 2 Ca. 560 substances registered ~ 700 registrations submitted 65 % as lead or alone

BASF calculates with overall costs of 500 – 550 Mio € (2008 – 2018)

► 50 mio € per year

≥ 20 mio € per year for tox and eco testing



150 years



REACH Tier 1 Experiences

- communication is key factor
- time consuming negotiations in SIEFs and consortia
- relatively fast agreements on substance identity
- 3 different IUCLID versions
- new guidance documents
- different interpretation of legal text and guidance documents
- different approaches to data gap filling, exposure assessment, CSR preparation etc.

ACH Her I Experiences









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REACH Tier 1 Example: Styrene

- REACH Technical Dossier (2010)
 - ▶ ca. 4200 pages
 - > 600 references
 - 819 pages CSR
- 2 updates so far
- eSDS:
 - 68 pages, 54 pages thereof covering information about uses and corresponding exposure scenarios



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Registration is not the end ...

Continuous pressure for dossier update

Business driven

- additional / modified uses
- change in substance ID
- change in production volume
- change in confidentiality claims

Regulatory driven

- new relevant data / information
- changed classification and labelling
- ECHA (targeted) compliance checks
- substance evaluation
- new / modified ECHA guidances

BASF has submitted more than **2000** update dossiers to



BASF has received 341 decision letters from

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Quality of REACH Dossiers

dossier quality shows Gaussian distribution

Dossiers are not perfect, but overall most are of reasonably high or very high quality

H Dossiers



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Concluding Remark

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Take and adequately consider industry input Increase practicability and decrease bureaucracy



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