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Outline - Substance ID

- Why is it important?
- > Issues?
- Case Studies
- Conclusions





Substance Identity

- REACH Information Requirement
 - Art 10 a ii, Annex 2 (2 2.3.7)
- ECHA page https://echa.europa.eu/regulations/reach/substance-identity
 - **Explanation and Guidance**
- > IUCLID
 - Section 1.2 Composition
 - Section 1.4 Analytical data





Substance ID - Why it is important

- Starting point for any REACH discussion
 - What is the substance?
 - Chemical Composition / Physical form
 - Substance type
 - Mono, multi, UVCB
 - One Substance One Registration (OSOR)
- Link to intrinsic hazard data
 - Grouping / Read Across / Alternatives





Some issues encountered (not exhaustive!)

- "Historical" positions
 - EC List and global Inventories
 - Availability of analytical data
- Complexity of different UVCBs*
- Relationship with salts and isomers



*Unknown, of Variable Composition, or of Biological Origin





Renewable Fuels Consortium

- Manufactures of novel fuels via co-processing with nontraditional feedstocks: vegetable and animal oils
- For many fuels, existing EC names reflect feedstock
 - Also included process description
- Addition of non traditional feedstock to the process results. in the existing substance name being inaccurate



Renewable Fuels Consortium

Resolution

- Investment in extensive analytical work on all member substances
 - Pilot and production
- Analytically similar substances "grouped" together
- Early discussion with ECHA Substance ID unit on naming
- Development of new names and process descriptors that reflect emerging industry practice



2017



Renewable Fuels Consortium

- Subsequent actions
 - Each Member company
 - Enquiry process to ECHA
 - Pre discussion allowed for quick response and approval
 - Basis for OSOR
 - Lead registrants agreed in RFC
 - Dossier development on basis of analytical data and enquiry process
 - Allowed clear read across to existing data
 - ✓ Registration by Lead and Co-registrants







H4R CONSORTIUM



- Manufactures of Rosins and Rosin derivatives
 - UVCBs Complex chemistry



- Diterpenic monocarboxylic acids
- Neutral fraction
- No single constituents present at concentration > 10 %
- Thousands of potential component structures
- Different categories of derivative depending upon treatment





H₄R CONSORTIUM

Hydrocarbon Resins & Rosin Resins REACH Consortium



- 28 Substance registrations in 2010
- **ECHA 2011**
 - Questions on Substance ID and read across of data
- ➤ H4R
 - Appreciation that the Substance ID was critical to plausibility of a category approach for read across
- How to approach when it is so complex?



5 April 2017

H₄R CONSORTIUM

Hydrocarbon Resins & Rosin Resins REACH Consortium

- Resolution H4R developed a common position on identification methodology
 - Reviewed available technologies, made recommendations
 - Gave detailed model spectra and structures
 - Common reference substances for classes
- Provided the basis for
 - Individual registrant analysis
 - Common text and interpretation for use in updating dossiers for all registrants
 - Substance Information Profiles (SIP)
- Published on SIEF information pages
- Allowed development, with other biological data and discussion with ECHA, consistent and plausible test strategy







2017



Observations on Substance ID

- Good quality data and practices critical to success not just for registration
 - SIEF / Joint Registration communications / understanding
 - Registration (OSOR)
 - Test and read across strategies
- Registrant / SIEF led cooperative working is key
 - Data led agree on what is required
 - All need to be able to work to the same standard not exclusive
 - Needs to be understood over complexity excludes but some complexity may be necessary!
 - Fit for purpose
 - Supports confidence in the intrinsic hazard data
 - Current data and any testing plans
 - Use the tools and help that is available





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Thank You



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ECHA Stakeholders Day

