

Information requirements for co- formulants under REACH

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Outline

- Principles of REACH information requirements
- Compliance check
- Testing proposals and substance evaluation
- Data requests and level of compliance
- Further information



Principles of REACH information requirements

- Accumulative depending on the tonnage band (see last slides)
- Annexes VI-X list the *minimum* information requirements
 - Obligation to provide *other available and relevant* information (Annex VII-X preamble)
 - Vertebrate animal testing as the last resort (Art 25(1) of REACH)
- Column 1 of each Annex describes the standard information requirements
 - Test Method Regulation (Art 13(3) of REACH), ECHA Guidance
 - Good laboratory practice (GLP) for toxicological and ecotoxicological endpoints (Art 13(4) of REACH)
- Column 2 of each Annex describes endpoint-specific adaptation possibilities and/or triggers for further studies
- Annex XI describes requirements for general adaptation possibilities

Compliance check (Art 41 of REACH) (1)

- Substance identity check prior to compliance check
- Evaluation focuses on key endpoints
 - Genotoxicity
 - Repeated-dose toxicity
 - Reproductive and Pre-natal developmental toxicity
 - Carcinogenicity
 - PBT properties: Degradation, Bioaccumulation, Long-term (aquatic) toxicity
 - Endocrine disruptors (human health and environment)
 - (Related endpoints in Annexes VII-VIII)
- What is checked in a compliance check?
 - Compliance with test guidelines and GLP, adaptation requirements, and possible triggers for further studies

Compliance check (Art 41 of REACH) (2)

- Either full or targeted compliance check (lead registrant dossier and opt-outs)
- If information is not compliant, ECHA may request an experimental study with the registered substance according to REACH Annexes VII-X and ECHA Guidance
 - ECHA cannot develop adaptations (e.g. read-across) for the registrants
 - In case data is requested, ECHA must request a study according to column 1
- The purpose is to achieve compliance with REACH and ensure sufficient hazard information for possible further regulatory processes, e.g.
 - Harmonised classification and labelling
 - Substance of very high concern (SVHC) identification
 - Restriction
 - Authorisation
- Focus in 2023 is on substances registered above 100 tonnes per year

Testing proposals and substance evaluation as data generation mechanisms

- Testing proposal (Art 40 of REACH) is registrant-initiated data generation
 - Applicable to Annex IX and X endpoints
 - If a data gap is identified by registrants and no alternatives are available, a testing proposal must be submitted to ECHA in the IUCLID dossier
 - Third party consultation for proposed vertebrate studies
 - To ensure that data generation meets real information needs
 - To avoid unnecessary animal testing (alternative considerations)
- Substance evaluation (Art 44 of REACH) is concern-based evaluation by Member States competent authorities
 - Concern=risk, i.e. (potential) hazard and exposure must be demonstrated
 - Data generation must have a high chance to lead to improved risk management measures
 - Information outside Annexes VI-X can be requested if it can be justified

Data requests and level of compliance in DEV

- Adaptations for higher tier endpoints are widely used (read-across and categories, weight-of-evidence)
 - Often not compliant (scientifically not robust or missing required elements)
- Top 5 endpoints requested in 2022 compliance checks
 - Long-term aquatic toxicity
 - Genotoxicity
 - Biodegradation
 - Pre-natal developmental toxicity
 - Reproductive toxicity
- In 2022, 421 decisions (CCH and TPE) were adopted with almost 2000 study requests

Links to further information

- ECHA grouping and screening of substances: <https://echa.europa.eu/working-with-groups>
- Public activities coordination tool (PACT): <https://echa.europa.eu/pact>
 - ARN reports
 - Evaluation status (dossier and substance evaluation)
 - Regulatory risk management processes
- ECHA dissemination website (frozen until Dec 2023): <https://echa.europa.eu/information-on-chemicals/registered-substances>
 - Information on co-formulants
- Progress in evaluation: <https://echa.europa.eu/overall-progress-in-evaluation>
- Alternatives to animal testing (2020): https://echa.europa.eu/documents/10162/0/alternatives_test_animals_2020_en.pdf/

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Annex VI and Annex VII information requirements – high level, non-exhaustive

- Annex VI; all registrations: Registrant info, substance identification, manufacture and use, classification and labelling, guidance on safe use
- Annex VII; 1-10 tonnes per year:
 - Physchem information
 - Screening for mutagenicity (*in vitro*)
 - Skin/eye corrosion/irritation
 - Skin sensitisation
 - Acute toxicity (oral)
 - Short-term for aquatic toxicity (algae and invertebrates)
 - Screening for degradation

Annex VIII information requirements – high level, non-exhaustive; 10-100 tonnes per year

- Skin/eye corrosion/irritation *in vivo* (if triggered)
- Further screening for genotoxicity (*in vitro*)
- Acute toxicity (dermal and inhalation if appropriate)
- Short-term repeated dose toxicity (28-day)
- Screening for reproductive/developmental toxicity
- Toxicokinetics (no test; available information)
- Short-term toxicity to fish
- Activated sludge respiration inhibition
- Abiotic degradation (hydrolysis)
- Adsorption/desorption

Annex IX information requirements – high level, non-exhaustive; 100-1000 tonnes per year

- Genotoxicity *in vivo*
- Sub-chronic toxicity (90-day)
- Pre-natal developmental toxicity 1st species
- Extended one-generation reproductive toxicity (if triggered)
- Long-term toxicity to invertebrates
- Long-term toxicity to fish
- Biotic degradation; simulation studies
- Identification of degradation products
- Bioaccumulation in aquatic species (fish)
- Toxicity to terrestrial organisms (invertebrates, soil microorganisms, plants)

Annex X information requirements – high level, non-exhaustive; more than 1000 tonnes per year

- 2nd genotoxicity *in vivo*
- Pre-natal developmental toxicity 2nd species
- Extended one-generation reproductive toxicity
- Carcinogenicity
- Further degradation studies
- Further information on environmental fate
- Terrestrial toxicity (long-term invertebrates, plants, sediment organisms, birds)

Annex XI general adaptation possibilities – high level, non-exhaustive

- Testing not scientifically necessary
 - Use of existing data (i.e. data generated before 1 June 2008)
 - Weight of evidence
 - Qualitative or quantitative structure-activity relationship (QSAR)
 - *In vitro* methods
 - Grouping of substances and read-across
- Testing is technically not possible
- Substance-tailored exposure-driven testing