Evaluation category	Evaluation criteria
Characteristics	Principle Prediction (i.e. hazard versus potency [categories or continuous]) Publication Information sources
Input data	Test method (in vitro and in chemico)  - read-out used  - validation status  - reproducibility  - issues (e.g. IP, availability) In silico/expert system data/physicochemical properties  - read-out used  - availability  - reliability  - issues (e.g. IP, availability)  Expert knowledge  - input used  - availability  Principle  Prediction (i.e. hazard vs. potency  [categories or continuous])  Publication Information sources
Prediction algorithm	Type Availability Transparency Requirements for implementation (specific software) Self-learning Complexity Sequential information generation All inputs required? Predictivity: Sample size (total and for categories) Predictivity: Parameters (sensitivity, specificity, concordance)
Mechanistic relevance	OECD AOP key events covered Sequence of OECD AOP events considered Justification/discussion of the mechanistic relevance
Applicability domain	Chemical spectrum tested Limitations (solubility, surfactants,) Potential limitations for cosmetic ingredients (e.g. natural extracts cannot be processed by in silico approaches)
Practical aspects	Costs Can be conducted by CRO? Time required (per substance)