REVIEW REPORTING				
General information				
Data set name	Alkyd resin (TOFA); technology mix; production mix, at plant; 77% in white spirit			
Data set UUID and version number	Aggregated: 0e671b1c-640b-4088-b1fc-0f2ee94c5262 Disaggregated: 583ab74c-033c-4e9c-90ca-5654070a0242 Version number: 03.00.001			
Data set locator	CEPE LCDN node: Chemicals for Paints datasets for PEF calculations, reference package EF3.0; https://lcdn-cepe.org/			
Review commissioner(s)	The European association of Paint, Printing Inks and Artists' colours manufacturers (CEPE)			
Reviewer name(s) and affiliation(s), contact	Max Sonnen, Ecomatters B.V., max.sonnen@ecomatters.nl; Natalia Chebaeva, Ecomatters B.V., natalia.chebaeva@ecomatters.nl			
Review type applied, and compliance with EF requirements for review	Review ty	pe 2, EF re	view compliance fulfilled.	
Method used for review , and review scope	The review focuses on the update of the dataset due to the EF reference package update. Selective review is performed covering only the points and parameters updated. The underlying general model was reviewed, with spot check of some parameters in all data sets. Suggestions for the dataset documentation were provided, discussed, and implemented. Review was carried out with study of the provided data set ILCD files, data set documentation, a series of dialogues with the data set developer and data entry practitioner, and additional information provided by data entry practitioner on request.			
Date of review completion Reviewed against/Compliance	22.04.2022 PEF/OEF			
system name Compatibility with EF reference package (Version)	EF3.0 (3f5b0b56-60e6-4df7-869d-a811830386d9)			
Overall compliance assessment	•			
Aspect	yes	no	comments	
Compliance with specific EF requirements	X		Electricity modelling is not reviewed for the scope of changing EF reference package; update of the background dataset for electricity is verified. Climate change modelling is not reviewed for the scope of changing EF reference package; no changes expected in the update. Agricultural modelling is not reviewed for the scope of changing EF reference package; no changes expected in the update. Transport is not included in the foreground modelling, but is documented to be accounted for in the averaged background processes used for approximation. Review of the background	

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		is out of the scope of review. Capital		
		goods and their end of life are not		
		included in the foreground modelling, but		
		are documented to be included in the		
		averaged background used for		
		approximation. Review of the		
		background is out of the scope of review.		
		Water flows are mainly regionalized, with		
		separation of withdrawal, release and		
		evaporation for both foreground and		
		background. Non-regionalised water		
		flows are explained as allocated to		
		countries not covered by the EF reference		
		package, according to the EF guidance.		
		Land related flows are partially		
		regionalised. Non-regionalised flows are		
		possible to be allocated to countries not		
		listed in the EF reference package. No		
		duplicated or waste flows detected. No		
		duplicated elementary flows detected.		
Allocation rules clearly explained	NA	Not reviewed for the scope of changing		
and consistent		EF reference package; no changes		
		expected in the update		
Circular Footprint Formula	X	Reference product is assumed without		
(correct implementation)		recycled content, and is an intermediate		
		product (end of life of the product is		
		outside the system boundary). Circular		
		footprint formula (CFF) is therefore not		
		applied in the foreground modelling as		
		not relevant. CFF application in the		
		background system is assumed in		
		accordance to the background data sets		
		used (primarily, as concerns energy		
		recovery in waste treatment), and is not		
		included into the scope of review.		
LCIA results consistency	X	LCIA results are reported consistently.		
		Verification of the reported characterised		
		results is done with Look@LCA. No		
		discrepancies above 1% detected.		
Nomenclature	Τ	T.,		
Correctness and consistency of	X	Nomenclature of the process and		
applied nomenclature (use of		relevant flows is compliant (Reference		
Specific EF reference package;		package EF3.0), and applied correctly and		
Correct nomenclature of other		consistently.		
flows, processes etc.)				
Documentation	1			
Appropriateness of		Information on the dataset name, UUID, reference flow and its		
documentation.	qualities, technology and geographical covereage are indicated.			
	_	Modelling choices and principles are listed (LCI method and		
	es, cut-off, specific modelling), explanations are given			
	to specific modelling and diviations from the EF guidance and			

	listed principles. A link to the flow diagramme is included. Data selection principles, data treatment, data quality assessments are presented. LCIA per impact category are provided in accordance to the EF3.0 reference package. Review details are given. Administrative data is sufficient, including publication and ownership, and intended applications. Provided range of documentation is EF compliant (with reservations), and allows for a fair assessment of the dataset. Provided metadata is detailed enough, and mainly respects ILCD entry-level and additional EF requirement. Diviations do not impede a fair assessment of the dataset use.		
Appropriateness / correctness of documentation format (ILCD Format)	Documentation format is appropriate, all required documentation fields are filled in providing the relevant metadata for the dataset. Documentation check tool applied, with no detected issues.		
Validation with ILCD Validation tool	Х	ILCD validation tool is applied, no issues detected.	
DQRs	NA	Provided DQR scores are not updated in the reference package update, in accordance with the section 3.6.5 of the tender. The existent EF2.0 DQR scores assessement was not reviewed. User is advised to consider the DQR with caution when using them without recalculation.	
Cut-off	NA	Not reviewed for the scope of changing EF reference package; no changes expected in the update	
Additional information	User is advices to take into account that packaging of the product is not included in the modelling, while transport and energy flows modelling is included, but accounted for in the blackbox.		

The reviewers declare on their responsibility that the reviewed data set is compliant with the Environmental Footprint general and specific compliancy rules, with the deviation notions provided.

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