REVIEW REPORTING			
General information			
Data set name	Dibasic esters (unspecified); technology mix; production mix, at plant		
Data set UUID and version number	Aggregated: 491ae325-5a25-4b33-b2ee-b6108be71aad Disaggregated: 042c511d-5a31-4e2f-9197-f2ee10beada5 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	Tv		
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	and the detect way to 1990 or for the first	
Appropriateness of		on 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 approaches, 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. Allocation method used is declared but is not detailed in the documentation as of allocated co-products, and allocation factors used. 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 II CD Validation			
Validation with ILCD Validation tool	X	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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Max Sonnen, Ecomatters B.V.

Natalia Chebaeva, Ecomatters B.V.