REVIEW REPORTING					
General information					
Data set name	Alkyd resin (urethane modified); technology mix; production mix, at plant; 77% in white spirit				
Data set UUID and version number	Aggregated: 49c86096-9dcf-4a88-b0bb-67e42dc4573b Disaggregated: f6083594-045c-463a-883e-dfdfd320d875 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		

	1	is and after any after the Control			
		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		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				

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	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	Х	ILCD validation tool is applied, no	issues	
tool		detected.		
DQRs	NA	Provided DQR scores are not upd the reference package update, in accordance with the section 3.6.5 tender. The existent EF2.0 DQR so assessement was not reviewed. Updated to consider the DQR with when using them without recalculations.	of the cores Jser is caution	
Cut-off	NA	Not reviewed for the scope of cheef reference package; no change expected in the update	0 0	
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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