REVIEW REPORTING					
General information					
Data set name	Bentonite	thickener	s; technology mix; production mix, at plant		
Data set UUID and version			fa-116c-4994-b256-999112c07fd0		
number	Disaggregated: d6a98a2b-62d5-46ff-9ccd-f1f7a8730070				
	Version number: 03.00.001				
Data set locator	CEPE LCDN node: Chemicals for Paints datasets for PEF				
Data set locator	calculations, reference package EF3.0; https://lcdn-cepe.org/				
Review commissioner(s)	The European association of Paint, Printing Inks and Artists'				
neview commissioner(c)	colours manufacturers (CEPE)				
Reviewer name(s) and	Max Sonnen, Ecomatters B.V., max.sonnen@ecomatters.nl;				
affiliation(s), contact	Natalia Chebaeva, Ecomatters B.V.,				
(-)/		natalia.chebaeva@ecomatters.nl			
Review type applied, and			view compliance fulfilled.		
compliance with EF requirements		po =, =			
for review					
Method used for review , and	The review	w focuses o	on the update of the dataset due to the EF		
review scope	reference package update. Selective review is performed				
•		covering only the points and parameters updated. The			
	underlying general model was reviewed, with spot check of				
	· ·		all data sets. Suggestions for the dataset		
			provided, discussed, and implemented.		
			but 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	22.04.2022				
Reviewed against/Compliance	PEF/OEF				
system name	·				
Compatibility with EF reference	EF3.0 (3f5	b0b56-60e	e6-4df7-869d-a811830386d9)		
package (Version)					
Overall compliance assessment					
Aspect	yes	no	comments		
Compliance with specific EF	Χ		Electricity modelling is not reviewed for		
requirements			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		
		]	is out of the scope of review. Capital		

			<u>,                                      </u>			
			goods and their end of life are not			
			included in the foreground modelling, but			
			are documented to be included in the			
			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	Х		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	Х		LCIA results are reported consistently.			
			Verification of the reported characterised			
			results is done with Look@LCA. No			
			discrepancies above 1% detected.			
Nomenclature	_					
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	1.6 -					
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 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					
	Jerection	pc.pic3, (	data dicatificiti, data quality assessificitis			

	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	Documentation format is appropriate, all required documentation fields are filled in providing the relevant					
Format)	metadata for the dataset. Documentation check tool applied,					
	with no detected issues.					
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			
0			when using them without recalculation.			
Cut-off	NA		Not reviewed for the scope of changing			
			EF reference package; no changes			
	ļ		expected in the update			
Additional information			e 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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