REVIEW REPORTING				
General information				
Data set name	Alkvd disr	ersion: Wi	thout water	
Data set UUID and version number	Alkyd dispersion; Without water Aggregated: 80e3d536-9347-42b2-b0c5-605759cf2a43 Disaggregated: d52d67d4-d1ce-487a-83b3-bf95ef39b619 Version number: 01.00.001			
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 type 2, EF review compliance fulfilled.			
Method used for review , and review scope	The dataset has been reviewed with a check of each single datapoint. 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 on request.			
Date of review completion	22.04.2022			
Reviewed against/Compliance system name	PEF/OEF			
Compatibility with EF reference package (Version)	EF3.0 (3f5b0b56-60e6-4df7-869d-a811830386d9)			
Overall compliance assessment			T .	
Compliance with specific EF requirements	X	no	Electricity consumption is modelled with the average EU grid mix 1kV-50kV (EU+EFTA+UK). No climate change modelling is implemented in the foreground. Documented climate change modelling is assumed to refer to the background modelling and not reviewed. No agricultural modelling is carried out in the foreground system. Agricultural modelling in the background processes is not reviewed. Transport on the foreground is modelled as one single subprocess for each transport dataset entering the gate of the central dataset modelled, without differentiation on transported material/ingredient/component. The transported weight and distance are	

	Т	
		as two separate parameters at the level
		of the central dataset. The modelling
		diviates from the EF modelling
		requirements and agreed upon with the
		data providers subject confidentiality. No
		capital goods modelling is implemented
		in the foreground system, marked as cut-
		off. The assumption of the capital goods
		to fall under the cut-off of 3% when
		allocated per kg of production is deemed
		reasonable. 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	Х	Allocation - mass, is documented for the
and consistent		dataset. Allocated co-products or
		allocation factors are not disclosed.
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 packaging
		materials modelling and 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	1	,
Correctness and consistency of	Х	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	I	

Appropriateness of	Information	on on the d	ataset 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					
	particular allocations applied on foreground and background 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.					
Appropriateness / correctness of	Diviations do not impede a fair assessment of the dataset use. Documentation format is appropriate, all required					
documentation format (ILCD			• • • • • • • • • • • • • • • • • • • •			
Format)	documentation fields are filled in providing the relevant metadata for the dataset. Documentation check tool applied,					
1 omac,	with no detected issues.					
Validation with ILCD Validation	X		ILCD validation tool is applied, no issues			
tool			detected.			
DQRs	Х		The DQR is calculated by the dataset			
			developer and data entry practitioner.			
			DQR is calculated for the reference year			
			2019.			
			DQR (P) = 1			
			DQR (Ti) = 1.5			
			DQR (Te) = 2 DQR (G) = 2.39			
			Total DOR score is 1.72. The calculations			
			have been carried out in compliance with			
			the Guide for EF compliant datasets, and			
			calculations reviewed. Assessment of			
			individual representativity indicators per			
			activity or secondary data were not			
			verified.			
Cut-off	Х		Capital goods are excluded from the			
			foreground modelling, and based on the			
			expert judgement fall under the cut-off			
			threshhold (3%). No other cut-offs are			
			applied as all known energy and material flows within the system boundaries are			
			declared. With that a			
Additional information	User is adviced to consider the fact that modelling of relevant					
	packaging materials is included in the "blackbox" modelling of					
	the reference product, and that capital goods and infrastructure					
	are not included in the foreground modelling.					

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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