REVIEW REPORTING					
General information					
Data set name	Benzoguanamine formaldehyde butylated; technology mix; production mix, at plant				
Data set UUID and version number	Aggregated: a850e553-4296-42cf-8224-30bbb41b0a72 Disaggregated: 68731416-9a2e-44c8-a38a-17c8b9078e7c 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 rev	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	1				
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 on the foreground is modelled as one single sub-process 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			
		modelled as one value without indication			
		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.			
		Capital goods and their end of life are			
		included as documented. 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	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					
	Informatio	on on the dataset name LILID reference flow and its			
Appropriateness of documentation.	Information on the dataset name, UUID, reference flow and its qualities, technology and geographical covereage are indicated.				
	Modelling choices and principles are listed (LCI method and				

Appropriateness / correctness of documentation format (ILCD Format)	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. 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. Documentation format is appropriate, all required documentation fields are filled in providing the relevant metadata for the dataset. Documentation check tool applied			
Validation with ILCD Validation	metadata for the dataset. Documentation check tool applied, with no detected issues.XILCD validation tool is applied, no issues			
tool DQRs	NA	detected. Provided	DQR scores are not updated in	
		the refere accordan tender. T assessem advised to	ence package update, in ce with the section 3.6.5 of the he existent EF2.0 DQR scores ent was not reviewed. User is o consider the DQR with caution ng them without recalculation.	
Cut-off	NA	EF refere	wed for the scope of changing nce package; no changes in the update	
Additional information	User is adviced to take into account that packaging materials are not included in the modelling of the reference product			

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.

Max Sonnen, Ecomatters B.V.

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