

Changelog openLCA Methods Package 2.3.3 (differences to version 2.3.2)

- Removed 1 duplicate CF for "Emission to water/unspecified/Water" from "Water use - 2017" in the "EF 3.1" method
- Removed 13 duplicate CF for "3-Butenenitrile" from "IPCC 2021 AGWP 20"
- All characterisation factors for mass water flows inside "Water use - 2017" in the "EF 3.1" method with a unit in "kg" get divided by 1000
- Removed "EN 15804+A2 Method" because it should be only used inside the EN15804 add-on

Changelog openLCA Methods Package 2.4.0 (differences to version 2.3.3)

- Changed the flow property of Elementary flows/Resource/in ground/Uranium from "Net calorific value" to "Energy"
- Made methods package compatible to ecoinvent 3.10 by adding new elementary flows from ecoinvent 3.10
- Updated EF 3.1 method (adapted):
 - Added elementary flows with exactly the same name, but different uuid numbers, from the resource compartment
 - Removed flow 4fof15b3-b227-4cdc-bob3-6412d55695d5 from Water use (Water - Emission to water/ocean)
 - Removed flows emitter to air from Water use (5d368100-b1bc-4456-8420-e469edccf349, 09872080-d143-4fb1-a3a5-647b077107ff, f977a02e-3564-4798-843c-9fb9a18bc18b, f14b59ff-d438-442d-8bad-b53694b8263a, 075e433b-4be4-448e-9510-9a5029c1ce94)
 - Added Phosphorus flows to Eutrophication freshwater
 - Added od9f1f58-e5b6-4387-a22e-ae28c4ccfc6a to Climate change (fossil) and climate change (CF 364.0)
 - Added Methane flows to Climate change
 - Added missing pm flows in Particulate matter
 - Removed from Resource use minerals and metals category impact factors that where not present in the original EF method
 - Added flows to Resource use minerals and metals category complete the mapping

List of new flows that are added to the openLCA methods package from the ecoinvent 3.10 methods to make the methods package compatible to ecoinvent 3.10 (only flows with their corresponding characterisation factors are added from methods that exist in both, the ecoinvent and the the openLCA methods package):

UUID	NAME	COMPARTMENT	SUBCOMPARTMENT	UNIT
1a5ef7d9-150d-4c9f-a709-fc2423a1d4db	1,3-Dichloropropene	Emission to soil	agricultural	kg
3cfafbc5-f2d4-4edc-ace7-8f644f2418ce	2,4-D	Emission to water	surface water	kg
b6b4201e-0561-5992-912f-e729fbfo4e41	2,4-D dimethylamine salt	Emission to air	low population density	kg
e36c124e-64b2-450d-b55d-f2cabf73eeff	2,4-D dimethylamine salt	Emission to water	ground water	kg
5b1bd939-79af-4513-af34-5f532295744f	2-Chlorophenol	Emission to water	unspecified	kg
12dde31e-f8d1-4300-be3e-859b918972ea	2-Methyl-2-butanol	Emission to water	unspecified	kg
23868338-42bc-4baf-a9e2-8e84ff8c92f1	2-Methyl-2-butene	Emission to water	unspecified	kg
c5d8f3f6-498f-4f66-b15c-9828516a70d4	Alpha-cypermethrin	Emission to water	surface water	kg
5a4f1f3d-6dda-4f61-b7ee-88ed61f2152a	Benz(a)anthracene	Emission to air	low population density	kg
4faa4d31-ffc8-4b5a-bdbc-6bda84133793	Benzo(ghi)perylene	Emission to air	low population density	kg
1c51a129-9696-56e5-b18a-6f59edfo7270	Bicyclopyrone	Emission to soil	agricultural	kg
90e519cc-47f6-5417-8700-53dd8ec37ebe	Carfentrazone-ethyl	Emission to water	surface water	kg
d7992d1c-65ec-4523-8b32-aef139acd1f5	Chlorpyrifos	Emission to water	surface water	kg
827c7522-41e9-490e-b48a-18c4276a707d	Clethodim	Emission to water	surface water	kg
35c3be63-5050-4adb-a379-ac429c12082e	Clodinafop-propargyl	Emission to water	surface water	kg
99eb5cdc-8c8a-45a7-8c5a-527773523984	Clopyralid	Emission to water	surface water	kg
6dec3953-7373-4eef-81d1-bb93936f64c1	Cloquintocet-mexyl	Emission to water	surface water	kg
88871056-0c78-5df7-961e-a37788c7ccdc	Cupric hydroxide	Emission to soil	agricultural	kg
od9f3c92-e80d-482f-b26a-403958eb21ac	Diflufenican	Emission to water	surface water	kg
44b12c5e-770c-4a71-8bde-f2504dfee8a8	Diflufenzopyr	Emission to air	low population density	kg
110a04fo-af53-5499-b22e-79b1b91e5a66	Erbium	Resource	in ground	kg

4c1b471c-4aaf-594a-80f7-c364da4d5c46	Flubendiamide	Emission to soil	agricultural	kg
1d6fd69b-672f-43f2-86a9-13277f83f3cd	Fluquinconazole	Emission to water	surface water	kg
20722b05-fd1f-446d-b818-dob05a520526	Fluquinconazole	Emission to air	low population density	kg
523ba331-odf7-4dee-aded-220a239f7755	Fluroxypyr	Emission to water	surface water	kg
f216cd2b-2a62-4d06-9efa-af12fo672936	Fluxapyroxad	Emission to air	low population density	kg
a338680a-ef8b-4f6d-baed-44c48666ebff	Fungicides, unspecified	Emission to air	low population density	kg
f76e7b4f-5a39-4bda-a91c-35a0ee2d3773	Glufosinate ammonium	Emission to air	low population density	kg
4f2fd940-ff16-51e4-811f-9b079d719ffd	Halosulfuron	Emission to water	surface water	kg
7a85a3d1-520e-5d35-9a4c-d506e106a8d2	Halosulfuron	Emission to air	unspecified	kg
1b144479-3284-4cf1-9b17-2590940e656a	Herbicides, unspecified	Emission to air	low population density	kg
822671bf-a774-41bb-aoff-681e6a1adca3	Imidacloprid	Emission to water	surface water	kg
ed9d969e-f77b-5f66-aa23-1b43ecoegfa1	Iodine	Emission to water	surface water	kg
d9a2f8e5-fo4a-5ffa-8c75-8133ac7f525c	Lutetium	Resource	in ground	kg
4557be4d-eea3-4081-8e8b-co1fac155e43	Metsulfuron-methyl	Emission to water	surface water	kg
1318785a-e5b1-4f42-a5b7-072333e37f91	N,N-Dimethylformamide	Emission to water	unspecified	kg
34c02cao-e1ad-45a6-858b-655c55edc2a8	Nitrogen	Emission to air	low population density	kg
1bb1ofa8-d5c2-4odf-87f6-egaec91d403	Oxyfluorfen	Emission to water	surface water	kg
43a76o88-d768-4807-b70b-049019c9b3f7	Paraquat	Emission to water	surface water	kg
895732bb-72c3-51bb-80ao-7b7d58c8ca7e	Pydiflumetofen	Emission to water	surface water	kg
50693b95-caeo-419d-a8c1-b5312dc93efb	Saflufenacil	Emission to air	low population density	kg
1272fo29-5d77-4c3d-9a26-6e98918of269	Sodium chloroacetate	Emission to water	unspecified	kg
05030b9e-2d09-4a54-89e6-7fdef2agdz94	Sodium methoxide	Emission to water	unspecified	kg
3e2aobef-ca37-4753-8214-coa03557eabo	Spinetoram	Emission to soil	agricultural	kg
0b5c0609-3456-5935-93ae-5414bo8eeaca	Spiromesifen	Emission to soil	agricultural	kg
36c72e34-2c5a-5995-aec4-44f168d866c7	Spirotetramat	Emission to soil	agricultural	kg

ce0399dc-3d7c-5eed-a4da-ec310d91b624	Tetraconazole	Emission to soil	agricultural	kg
69ca2cc6-7dbf-5ad6-b90f-48236659dbfc	Thiencarbazone-methyl	Emission to soil	agricultural	kg
a34e010c-6f68-5c79-8b45-2955b91f7dc2	Thulium	Resource	in ground	kg
f9f2a3f1-619c-5c9f-8fde-bo5625e8baeb	Topramezone	Emission to soil	agricultural	kg
4af69e93-b74b-4094-ab4f-4c24897fe77	Triclopyr	Emission to water	surface water	kg
5ba98eff-ca29-42cd-80b4-d978c98b901e	Trifluralin	Emission to water	surface water	kg
ea659cca-fe3d-5b03-90d2-60719a862874	Ytterbium	Resource	in ground	kg
27780b11-a0ef-4a31-bbe0-a7e6c800fa97	m-Nitrotoluene	Emission to water	unspecified	kg
46boed21-8557-4a81-87cc-f099c573fbd	p-Nitrotoluene	Emission to water	unspecified	kg