

Database notes – Agribalyse 3.0

(June 3, 2020)

For the database provided in openLCA Nexus, <https://nexus.openlca.org/>

General notes (for any data pack from Nexus): This is a zolca file which is basically a compressed openLCA database. To use it in openLCA, either **restore** it (right-click in openLCA navigation panel → Restore database; main menu function: Database → Restore database); this will recreate the database in openLCA, as new database. **Or, import it into an existing** database that is already open in openLCA (then right-click on the open database → import → import entire database). This allows you to combine different databases and Nexus data packs.

Specific notes for this database: The current version of the French Agribalyse database comprises datasets for 2500 agricultural and food products produced and/or consumed in France, combining a production-based and a consumption-based approach. This is the third version of the database, built by INRAE for agriculture datasets and by Gingko 21, Sayari, and Blonk for food items value chains.

The methodology for the database aims to follow key international guidelines laid out by ISO, LEAP, and PEF and has been co-developed through a partnership between public and private research institutes, coordinated by ADEME (French Agency for Ecological Transition) and INRAE.

The original database has been built as a SimaPro database and therefore inherits some of the limitations of SimaPro. Specifically, process names with more than 100 characters are truncated. GreenDelta is responsible for creating the openLCA databases based on this SimaPro database. As part of this work, data quality indicators, available as part of the general description in the SimaPro version, have been moved to the process data quality indicators in openLCA.

The database contains ecoinvent 3.5 cut-off processes as background processes, which are provided for free, due to a sublicensing agreement with ecoinvent.

Database can be combined with:

Inventories: In principle, a combination with other “ecoinvent-like” databases is possible, ideally databases that follow the same system model (ESU, lc-inventories).

Impact Assessment: Compatible with the openLCA LCIA 2.0.5 method package

Data quality systems: Are provided in the database

Regionalized LCIA methods: None

Calculation for multi-output processes: Processes with multiple output products have been assigned with allocation factors, which should be considered in the calculation. To do so, please ensure selecting **Allocation Method → As defined in processes**, in the calculation window. Also, when comparing product systems in ‘Projects’, choose the option ‘As defined in processes’ for getting the correct results.

Using direct calculation: Direct calculation works for the Agribalyse database. The direct calculation option is available from openLCA 1.10.2 (and later versions) for calculating the entire life cycle linked to a process and product. For more information, please have a look at the user manual for openLCA 1.10.2, currently at http://www.openlca.org/wp-content/uploads/2020/02/openLCA_1.10_User-Manual.pdf. Future versions of the manual will be available at <http://www.openlca.org/learning/>.

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