

Supplementary Material for: Evaluation Criteria for AI-Assisted Product Carbon Footprinting Systems: The Cases of Mapping and Supply Chain Modeling

Online Resource 2: EPD Validation Dataset

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Overview

This document summarizes the 269 Environmental Product Declarations (EPDs) used for end-to-end benchmarking of the Advanced Modeling System (Case 2) in the main paper. EPDs were sourced primarily from EPD International and represent a diverse range of product categories. All EPDs have a declared unit that can be converted to 1 kg or 1 unit.

Table OR2.1: Distribution of EPDs by product category

Category	Count
Food & beverages	73
Chemical products	63
Metal, mineral, plastic & glass products	56
Textiles, footwear & apparel	16
Construction products	13
Paper & plastic products	13
Vehicles & transport equipment	13
Machinery & equipment	12
Furniture & other goods	10
Total	269