Life Cycle Assessment Prophyl® S

Huvepharma® is committed to being Carbon neutral by 2030. We have already made significant investments in renewable energy installations and process optimisations. We manufacture our own products in our own production sites, so we have full control over everything from strain to shelf. Autonomy and transparency are assured. As a result, we can provide you with a life cycle assessment (LCA) of the products you buy from us.

Impact Category	Unit	Current Energy Mix
Global warming - incl LUC and peat ox	kg CO_2 eq	4,0969
Global warming - excl LUC and peat ox	kg CO_2 eq	4,0951
Global warming - only LUC	kg CO_2 eq	0,0018
Global warming - only peat ox	kg CO_2 eq	0,0000
Stratospheric ozone depletion	kg CFC11 eq	0,0000
Ionizing radiation	kBq Co-60 eq	0,8480
Ozone formation, Human health	kg NO_x eq	0,0058
Fine particulate matter formation	kg PM2.5 eq	0,0029
Ozone formation, Terrestrial ecosystems	kg NO_x eq	0,0062
Terrestrial acidification	kg SO_2 eq	0,0068
Freshwater eutrophication	kg P eq	0,0006
Marine eutrophication	kg N eq	0,0001
Terrestrial ecotoxicity	kg 1,4-DCB	5,2972
Freshwater ecotoxicity	kg 1,4-DCB	0,0601
Marine ecotoxicity	kg 1,4-DCB	0,0792
Human carcinogenic toxicity	kg 1,4-DCB	0,0934
Human non-carcinogenic toxicity	kg 1,4-DCB	1,3477
Land use (Total)	m^2a crop eq	0,0585
Land use (Transformation)	m^2a crop eq	0,0055
Mineral resource scarcity	kg Cu eq	0,0049
Fossil resource scarcity	kg oil eq	1,0472
Water consumption	m^3	0,0762
Land occupation	m^2a	0,1547

Supporting notes:

- Methodology developed by Blonk Consultants based on:
  - ISO14040/14044
  - PEFCR Guidance (European Commission)
  - ReCiPe 2016 method
- Scope: Cradle-to-factory-gate
- Production in France
- 1 l of finished product
- Energy mix (2023) – French grid
- Wastewater treatment is modelled using background data (Ecoinvent®)
- Energy for compressed air is partially modelled

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