



## RADILON ® BN 200 AS/2 NAT

The Life Cycle Assessment (LCA) is carried out in alignment with ISO 14040 et sqq and is developed as a cradle-to-gate analysis.

Secondary data (Ecoinvent and Industry Data 2.0) are used for the evaluation of the processes outside the company's control.

European plants are supplied with 100% renewable energy.

Primary data reported are collected in the Plant of Lüneburg (DE) run by Radici Plastics GmbH (reference year 2021);

- raw material and additives are typical of the Product according to its physical content (NO mass-balance approach)
- energy consumption, emissions\*, water use and waste production are Site Specific
- transportation of raw materials is accounted as Site Supply Average.

No allocation is applied. Cut-off rule for the inventory is set below 1 % of the total material inputs.

Declared Unit: 1 KG of granule, Including packaging, at gate.

Impact Assessment Method used: EN 15804 + A2 – in Simapro v.9.05

Impact Category	Unit	Total
Climate change - Fossil	kg CO2 eq	7,03E+00
Climate change - Biogenic	kg CO2 eq	7,52E-03
Climate change - Land use and LU change	kg CO2 eq	1,60E-02
Climate change	kg CO2 eq	7,06E+00
Acidification	mol H+ eq	1,66E-02
Eutrophication, freshwater	kg P eq	7,18E-04
Eutrophication, marine	kg N eq	4,83E-03
Eutrophication, terrestrial	mol N eq	5,14E-02
Photochemical ozone formation	kg NMVOC eq	1,34E-02
Ozone depletion	kg CFC11 eq	1,50E-07
Resource use, minerals and metals	kg Sb eq	2,86E-06
Resource use, fossils	MJ	1,16E+02

These information are part of a broader approach to environmental impact assessment carried out by RadiciGroup High Performance Polymers and reserved to the recipient only. Any use, other than recipient information, must be agreed with RadiciGroup. It is recommended to avoid any comparative assertion\*\*.

Your cooperation for a proper communication will be appreciated.

For any further information please contact: [info.plastics@radicigroup.com](mailto:info.plastics@radicigroup.com) or visit [www.radicigroup.com](http://www.radicigroup.com).

Issue Date :08/01/2024 Validity: 3 years from the issue date

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\*If not available, the worst corresponding amount, collected in the Italian plant, is used.

\*\*ISO 14040, p.3.6 **comparative assertion: environmental claim** regarding the superiority or equivalence of one product versus a competing product that performs the same function

p.5.2.1.1 The goal of an LCA states:----whether the results are intended to be used in comparative assertions intended to be disclosed to the public.