

# **Kemira Supplier PCF Guideline**

**PRODUCT CARBON FOOTPRINT REPORTING GUIDELINE FOR  
KEMIRA DIRECT MATERIAL SUPPLIERS**

**PUBLIC DOCUMENT – FOR KEMIRA STAFF AND BUSINESS PARTNERS**

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## 1 DOCUMENT CHANGE HISTORY

| Date      | Version | Remarks                                                                                           | Sign-off |
|-----------|---------|---------------------------------------------------------------------------------------------------|----------|
| 1.2.2023  | 1.0     | Document created                                                                                  | JE       |
| 3.1.2024  | 2.0     | Specifying gate, excluding freight emission reporting, links and definitions, content requirement | JE       |
| 13.1.2025 | 3.0     | Clarifying gate definition, updating the PCF content reporting requirement                        | SA       |
| 14.4.2025 | 3.1     | Minor changes to reporting section table                                                          | JE       |

**Location of latest document version:** <https://www.kemira.com/company/sustainability/resources/>

## 2 ACRONYMS AND DEFINITIONS

|                           |                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Allocation</b>         | In case of co-products, the process of allocating the emissions of the product system to the products with a specific allocation approach                                                                                                   |
| <b>Biogenic carbon</b>    | Carbon derived from biomass                                                                                                                                                                                                                 |
| <b>Biogenic emissions</b> | Carbon dioxide emitted during the burning and degrading of renewable materials, and other biogenic greenhouse gas emissions, such as methane from anaerobic degradation of biomass in landfills                                             |
| <b>Biogenic removal</b>   | Carbon dioxide bound during plant growth                                                                                                                                                                                                    |
| <b>CO<sub>2</sub>eq</b>   | Carbon dioxide equivalent. Carbon dioxide equivalent is a measure used to compare the emissions from various greenhouse gases based upon their global warming potential. Global warming potentials of greenhouse gases are defined by IPCC. |
| <b>EPD</b>                | Environmental Product Declaration                                                                                                                                                                                                           |
| <b>GHG</b>                | Greenhouse Gas                                                                                                                                                                                                                              |
| <b>GWP</b>                | Global-warming potential                                                                                                                                                                                                                    |
| <b>LCA</b>                | Life-Cycle Assessment                                                                                                                                                                                                                       |
| <b>PCF</b>                | Product Carbon Footprint. Cradle-to-gate GHG emissions in kg CO <sub>2</sub> eq per unit of sold product                                                                                                                                    |
| <b>Primary PCF data</b>   | PCF data about the actual consumption of materials, energy, etc. collected directly at the source and concerning the specific value chains for the product out of each individual manufacturing facility where it is produced               |
| <b>SBTi</b>               | Science-Based Target initiative                                                                                                                                                                                                             |
| <b>SDG</b>                | Sustainable Development Goal                                                                                                                                                                                                                |

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**Secondary PCF data**

PCF Data that is not from specific processes from the company's value chain, but derived from research, governmental or other public organizations and databases

**Supplier  
WBCSD**

Manufacturer or distributor, who is the contractual party with Kemira  
World Business Council for Sustainable Development

### 3 INTRODUCTION

Kemira has set an ambitious climate target for significant reductions in its greenhouse gas (GHG) emissions by 2030 in line with the Science Based Target initiative (SBTi). As a part of reducing Kemira's upstream Scope 3 emissions, we are setting out to achieve value chain transparency with the ambition to work with our suppliers to manage our collective emissions. As over 80% of Kemira's GHG emission are estimated to occur in our value chain, we need to work together with our value chain partners to succeed.

Kemira is requesting from its suppliers information related to the carbon footprint of the products supplied to Kemira. The purpose is to collect, validate, manage and update Product Carbon Footprint (PCF) Data over time. This technical document provides Kemira's reporting guidelines for suppliers.

Kemira aims to understand the total environmental impact of Kemira's products and value chain also beyond the climate impact. We highly encourage suppliers to provide a Life Cycle Assessment (LCA) together with the PCF, to illustrate all the environmental aspects and impacts throughout the product's life cycle.

#### Reporting Checklist

You have received:

- ☐ Kemira Supplier PCF Guideline
- ☐ Kemira Supplier PCF Questionnaire (via MySourcing Portal)

Data and Documents to submit as part of the supplier PCF:

- ☐ PCF data by responding the PCF Questionnaire in MySourcing Portal
- ☐ LCA (if available)
- ☐ Environmental Product Declaration (if available)
- ☐ Critical Review Statement (if available)

Please make sure that you have also familiarized yourself with Kemira's general supplier requirements, including:

- ☐ Kemira Code of Conduct for business partners: <https://www.kemira.com/code-of-conduct/>
- ☐ Detailed requirements specific to sourcing category and material

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## 4 OVERVIEW OF REQUIREMENTS

This document considers requirements related to purchased direct materials Product Carbon Footprint (PCF) reporting.

The Product Carbon Footprint is the sum of greenhouse gas (GHG) emissions and removals of a product converted into a CO<sub>2</sub> equivalent (CO<sub>2</sub>eq). The carbon footprint data shall be disclosed in **kg of CO<sub>2</sub>eq per declared unit of unpacked as-delivered product**. In case of chemical products, the declared unit is often defined as 1 kg of product. In case the carbon footprint is including product packaging, it shall be clearly specified. In case the product contains free water, the PCF shall be reported on wet-basis (as-delivered product).

Figure 1 below from the GHG Protocol shows the GHG emission scopes from the perspective of the reporting company. Kemira's upstream Scope 3 activities with a purchased good correspond to that goods supplier's Scope 1, Scope 2 and upstream Scope 3 activities.

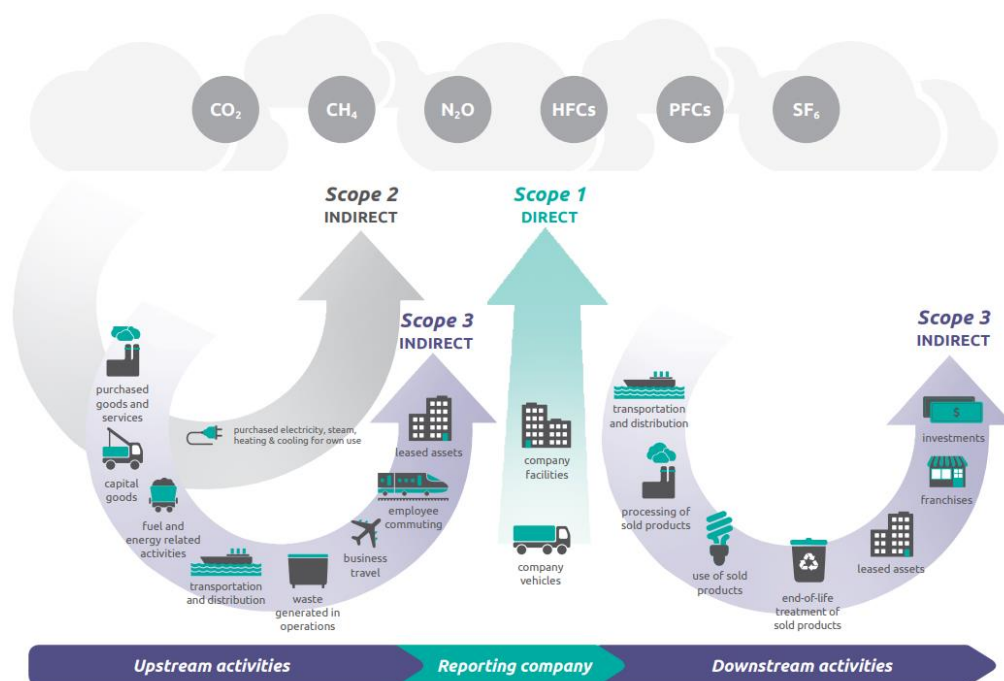


Figure 1: Overview of GHG Protocol scopes and emission across the value chain from the perspective of the reporting company.

Source: [https://ghgprotocol.org/sites/default/files/standards/Corporate-Value-Chain-Accounting-Reporting-Standard\\_041613\\_2.pdf](https://ghgprotocol.org/sites/default/files/standards/Corporate-Value-Chain-Accounting-Reporting-Standard_041613_2.pdf)

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The supplier PCF data to be provided is the **cradle-to-gate** product carbon footprint covering the product's life cycle from raw material extraction up until the Supplier's gate when material is loaded for shipment to Kemira's site (see Figure 2 when the Supplier is the manufacturer and Figure 3 for distributors and traders), including emissions of effluent and waste treatment. Emissions from transportation from the supplier's gate to Kemira shall not be reported as part of the PCF data.

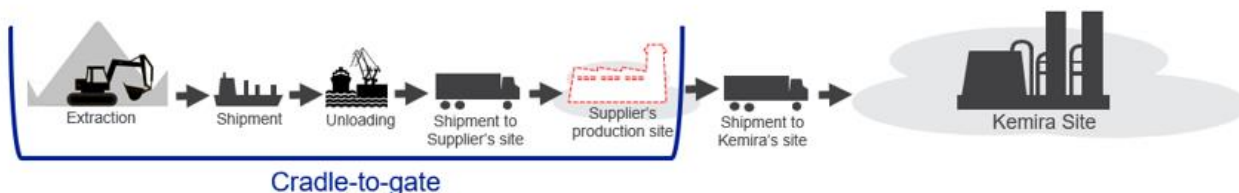


Figure 2: When the Supplier is the manufacturer. The gate = the Supplier's production site.

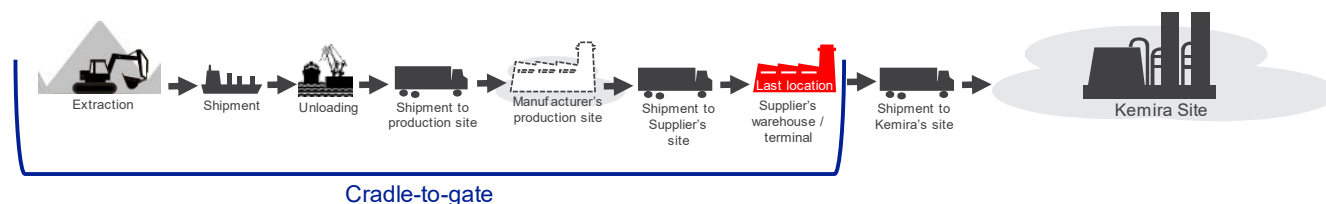


Figure 3: When the Supplier is a distributor or trader. The gate=the Supplier's warehouse/terminal.

If you have any additional documentation to support the PCF, such as a **LCA report**, **Environmental Product Declaration**, or **Critical Review Statement**, please provide this also to Kemira. Any exclusions from the carbon footprint data should be documented and reported to Kemira.

The information shared with Kemira will be strictly used to calculate product carbon footprint of Kemira products and GHG emissions management. The primary PCF data provided by a supplier to Kemira will not be directly shared with any third party that is not part of the Kemira Group or a cooperation partner contracted by Kemira and bound with an NDA. Kemira's emissions resulting from the use of the supplied product will be incorporated into Kemira own product carbon footprint calculation that will be openly shared with Kemira customers and other stakeholders.

## 4.1 Reporting Methodology

It is **recommended** to use the [TfS PCF guideline](#) for the PCF calculation.

**At a minimum**, the PCF shall be calculated **cradle-to-gate** per the ISO14067:2018 for carbon footprint of products, which builds on the principles and requirements of the ISO standards 14040:2006 and 14044:2006 for

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life cycle assessment, and additionally per the GHG Protocol Product standard. The required reporting content is outlined in section 4.2.

In case the supplier manufactures the same product in several plants, it is recommended that a separate PCF is reported for each plant from where the product is produced and supplied from to Kemira. At minimum, a separate PCF shall be reported for each region (EMEA, Asia Pacific, North America, South America) from where the product is produced and supplied from to Kemira.

It is recommended that an accredited third-party conducts an assurance or verification of the PCF data or alternatively that a critical review or a peer review is conducted.

## 4.2 PCF reporting content

| <u>Category</u>     | <u>Attribute</u>                                                                   | <u>Further explanation</u>                                                                                   | <u>Example</u>                                                  | <u>Mandatory</u>  |
|---------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------|
| <u>General Info</u> | Company name                                                                       | (Legal) Name of data owner                                                                                   | My Corp                                                         | yes               |
|                     | Supplier contact                                                                   | Contact person                                                                                               | James Smith                                                     | yes               |
|                     | Product trade name                                                                 | Product name                                                                                                 | Green Ethanol                                                   | yes               |
|                     | Product description including reference to the solution for which PCF is reflected | Technical Description of product or waste plus other information related to it such as production technology | Ethanol, 95% solution                                           | yes               |
|                     | Concentration                                                                      | Concentration for which the PCF is reflected to                                                              | Ethanol, 95% solution                                           | yes               |
|                     | CAS                                                                                | CAS Number for the main component                                                                            | 58-08-2                                                         | yes, if available |
|                     | Producer information                                                               | Name of producer and relevant location details of the producer                                               | Ally Chemicals LLC<br>Region, Country, City, Postal Code, State | yes               |
| <u>PCF Data</u>     | Declared unit                                                                      | Declared unit of product for which the PCF is reported                                                       | 1 kg                                                            | yes               |

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|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                     |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>PCF</b> (incl. biogenic emissions and removals)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cradle-to-gate PCF in kg CO <sub>2</sub> eq/kg product<br><br>Sum of separate emission values 1+2+3+4+5+6 | 0.8 kg CO <sub>2</sub> eq/kg Ethanol 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                          | yes, if product is bio-mass balance based and/or contain renewable carbon                                                                                                           |
|  | <b>PCF</b> (excl. Biogenic emissions and removals)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cradle-to-gate PCF in kg CO <sub>2</sub> eq/kg product Sum of separate emission values 1+2+4+5+6          | 2.6 kg CO <sub>2</sub> eq/kg Ethanol 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                          | yes                                                                                                                                                                                 |
|  | Separated into emission values:<br><b>1. GWP Fossil CO<sub>2</sub> eq-emissions</b> (net result of fossil emissions and removals)<br><b>2. GWP Biogenic CO<sub>2</sub>eq-emissions</b> (only other GHG emissions than CO <sub>2</sub> – excludes biogenic CO <sub>2</sub> )<br><b>3. GWP Biogenic withdrawal</b> (biogenic CO <sub>2</sub> contained in the product)<br><b>4. GWP direct land use change (dLUC)</b> CO <sub>2</sub> eq-emissions<br><b>5. GWP Land use (LU)</b> CO <sub>2</sub> eq-emissions<br><b>6. GWP Aviation</b> CO <sub>2</sub> eq-emissions | In kg CO <sub>2</sub> eq/Declared Unit                                                                    | 1. Fossil CO <sub>2</sub> eq: 2.0 kg CO <sub>2</sub> eq/kg Ethanol 95%<br><br>2. Biogenic CO <sub>2</sub> eq*: 0.4 kg CO <sub>2</sub> eq/kg Ethanol 95%<br><br>3. Biogenic withdrawal: -1.8 kg CO <sub>2</sub> eq/kg Ethanol 95%<br><br>4. Direct land use change /dLUC CO <sub>2</sub> eq: 0.1 kg CO <sub>2</sub> eq/kg Ethanol 95%<br><br>5. Land use /LUC CO <sub>2</sub> eq: 0.2 kg CO <sub>2</sub> eq/kg Ethanol 95%<br><br>6. Aviation CO <sub>2</sub> eq: 0.0 kg CO <sub>2</sub> eq/kg 95% | yes, if product is bio-mass balance based and/or contain renewable carbon<br><br>Please keep in mind that reporting is mandatory if compliance with ISO 14067 or PEF is anticipated |
|  | <b>Bio-mass balanced and/or renewable carbon content</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Information if product contains bio-mass balance based and/or renewable carbon                            | Yes or No response                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | yes                                                                                                                                                                                 |
|  | <b>Biogenic carbon content</b> (physical or Bio-mass balanced)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Kg Bio-C/kg product                                                                                       | 0.495 kg biogenic C/kg Ethanol 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                | yes, if product is bio-mass balance based and/or contain renewable carbon                                                                                                           |
|  | <b>Total carbon content</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Kg C/kg product                                                                                           | 0.495 kg/kg Ethanol 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | yes                                                                                                                                                                                 |

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|                                 |                                                                                                   |                                                                                                                               |                                                  |                 |
|---------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-----------------|
|                                 | <b>Confirmation for cradle-to-gate PCF</b>                                                        | Confirm that the provided PCF data is cradle-to-gate                                                                          | Yes or No response                               | yes             |
|                                 | <b>Confirmation for exclusion of packaging</b>                                                    | Confirm that your cradle-to-gate PCF does <u>not</u> include the packaging                                                    | Yes or No response                               | yes             |
|                                 | <b>PCF calculation standards or guidelines used</b> (or product or sector specific rules if used) | Standard used for calculating the PCF                                                                                         | PCR, TfS Guideline 2024, ISO 14067: 2018         | yes             |
|                                 | <b>Production technology</b>                                                                      | The production technology for which the PCF data is reflecting to                                                             | Electrolysis                                     | optional        |
|                                 | <b>Allocation approach</b>                                                                        | Type of allocation rules applied to multi-output processes                                                                    | Mass allocation                                  | yes, if applied |
|                                 | <b>Geography information of the study used for the PCF data</b>                                   | The region, country and city for which the study you have used if referring to                                                | EMEA / U.K / London                              | yes             |
|                                 | <b>Reference period start</b>                                                                     | Start of time period of data collection for primary data sources (this does not refer to publication dates of secondary data) | 01/01/2020                                       | yes             |
|                                 | <b>Reference period end</b>                                                                       | End of time period of data collection for primary data sources                                                                | 31/12/2021                                       | yes             |
| <b>Data Sources and Quality</b> | <b>Primary data share (PDS)</b>                                                                   | Share of primary data in the final PCF, calculated according to current WBCSD Pathfinder Framework.                           | PDS 95%                                          | optional        |
|                                 | <b>Source of secondary data and version</b>                                                       | Please indicate the source and version of secondary data used in your calculation.                                            | ILCD, Carbon Minds, ecoinvent 3.10, open sources | yes             |
|                                 | <b>Verification approach and organization</b>                                                     | None, Internal LCA Expert, Third Party Verification - Product                                                                 | Verification by internal LCA expert              | yes             |

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|                                          |                                                                    | Review, Third Party<br>Verification -<br>Systematic Approach<br>Review                                                                                                    | Or<br>Verification by<br>external LCA<br>Analyst, Company<br>ABC Ltd                                                                                            |          |
|------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b><u>Comments and<br/>Additions</u></b> | <b>Recycled material<br/>content in your<br/>product</b>           | Recycled material<br>means a by-product,<br>side stream or waste<br>stream other than<br>carbon                                                                           | If yes, please<br>describe the<br>recycled material<br>content<br><br>If yes, please state<br>the share of<br>recycled material in<br>your product [0-100<br>%] | optional |
|                                          | <b>Future potential to<br/>reduce the PCF for<br/>your product</b> | If you foresee<br>potential for PCF<br>reduction, please<br>specify                                                                                                       | Target is to reduce<br>the PCF by xy% by<br>2030 by switching<br>emission-free<br>electricity                                                                   | optional |
|                                          | <b>Life Cycle<br/>Assessment (LCA)</b>                             | Information is a full<br>Life Cycle<br>Assessment (LCA)<br>done in relation to<br>the PCF calculation<br>and if not are you<br>planning to conduct a<br>LCA in the future | LCA is not<br>conducted, but there<br>is a target conduct<br>LCA in 2026                                                                                        | optional |

\* If the share of biogenic CO<sub>2</sub> emissions is not known and cannot be determined, the calculated CO<sub>2</sub> emissions shall be considered as fossil CO<sub>2</sub> emission. In this case the CO<sub>2</sub> removal shall only be calculated based on the carbon content in the product.

### Excluded information

- Engineering and R&D
- Business travel and commuting
- Production of investment goods
- Defined cut-off activities

### Optional information

- Packaging (shall be specified if included)

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### 4.3 Secondary data used for PCF reporting

The product carbon footprint calculation shall be based as much as possible on primary data, meaning actual consumption of materials and energy collected directly at the source. If primary data is not available, secondary data can be used to fill in the gaps. Secondary data refers to data derived from, for example, research, governmental or other public organisations and databases. In case secondary data has been used, the secondary data source and its share in the calculations should be specified and reported to Kemira. Supplier shall use the latest database versions available on market in its calculations.

### Recommendations for sources of Secondary emission factors

|                                                                                                                                                                                                                                                   |                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <u>Ecoinvent (use latest version available on market)</u><br><a href="https://ecoinvent.org/">https://ecoinvent.org/</a>                                                                                                                          | Database that is a compliant data source for studies and assessments based on ISO 14040/14044, 14067 and TfS.                       |
| Commercially available PCF software tools                                                                                                                                                                                                         | Commercially available PCF software tools (such as for example Sphera/ GaBi) contain emission databases to support PCF calculation. |
| <u>GLEC (Global Logistics Emissions Council)</u><br><a href="https://www.smartfreightcentre.org/en/how-to-implement-items/what-is-glec-framework/58/">https://www.smartfreightcentre.org/en/how-to-implement-items/what-is-glec-framework/58/</a> | Global framework and method for calculation and reporting of logistics emissions.                                                   |
| <u>EcoTransitIT World</u><br><a href="https://www.ecotransit.org/en/">https://www.ecotransit.org/en/</a>                                                                                                                                          | Solution to calculate emissions of global freight transports.                                                                       |

### 4.4 Offsetting

The PCF must be reported to Kemira without offsetting. In case of offsetting, please provide Kemira with further information and evidence of these activities.

### 4.5 How to report PCF

It is recommended that suppliers use Kemira Supplier PCF Questionnaire to report the PCF. Alternatively, suppliers may provide the PCF Data in their existing reporting format (such as, for example, a PDF) as long as provided PCF Data is compliant with the content requirements per section 4.2.

### 4.6 Timelines for the requirements

In case the supplier does not have a PCF readily available, Kemira expects that the supplier will calculate and report the PCF as soon as possible but latest within one year from Kemira's PCF request. The PCF is valid up to 5 years unless otherwise required by Kemira, but more regular updates are recommended and required if impactful changes (>20% of PCF) have occurred.

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## 5 RESOURCES

### TfS PCF Guideline

<https://www.tfs-initiative.com/pcf-guideline>

### TfS PCF Guideline – Supplier Briefing

[https://www.tfs-initiative.com/app/uploads/2022/08/TfS\\_PCF\\_Guideline\\_-\\_Supplier\\_Briefing.pdf](https://www.tfs-initiative.com/app/uploads/2022/08/TfS_PCF_Guideline_-_Supplier_Briefing.pdf)

### Other references

|                                                                                                                                                                           |                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <u>GHG Protocol Product Standard</u><br><a href="https://ghgprotocol.org/product-standard">https://ghgprotocol.org/product-standard</a>                                   | The Product Life Cycle Accounting and Reporting Standard can be used to understand the full life cycle emissions of a product and focus efforts on the greatest GHG reduction opportunities. |
| <u>GHG Protocol Corporate Standard</u><br><a href="https://ghgprotocol.org/corporate-standard">https://ghgprotocol.org/corporate-standard</a>                             | The GHG Protocol Corporate Accounting and Reporting Standard provides requirements and guidance for companies and other organizations preparing a corporate-level GHG emissions inventory.   |
| <u>GHG Protocol Value Chain (Scope 3) Standard</u><br><a href="https://ghgprotocol.org/standards/scope-3-standard">https://ghgprotocol.org/standards/scope-3-standard</a> | The Corporate Value Chain (Scope 3) Accounting and Reporting Standard allows companies to assess their entire value chain emissions impact and identify where to focus reduction activities. |
| <u>ISO 14040</u>                                                                                                                                                          | Environmental management — Life cycle assessment — Principles and framework                                                                                                                  |
| <u>ISO 14044</u>                                                                                                                                                          | Environmental management — Life cycle assessment — Requirements and guidelines                                                                                                               |
| <u>ISO 14067</u>                                                                                                                                                          | Greenhouse gases — Carbon footprint of products — Requirements and guidelines for quantification                                                                                             |
| <u>Kemira Sustainability page</u><br><a href="https://www.kemira.com/company/sustainability/">https://www.kemira.com/company/sustainability/</a>                          | Kemira sustainability section in corporate web page                                                                                                                                          |

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