

Life Cycle Assessment Critical Review Statement

The Critical Review of the Life Cycle Assessment (LCA) study “LCA Study Report of HEXETATE 3.0 GLASSES, Ver1.0, May 25, 2026” on product

HEXETATE 3.0 GLASSES

which was conducted by

HEXETATE TECHNOLOGY CO., LTD.

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has been performed by SGS according to ISO 14071:2024 and reached the conclusion as meeting the requirements of

ISO 14040:2006 and ISO 14044:2006



Authorized by
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This Statement is not valid without the full verification scope, objectives, criteria and findings available on pages 2 to 5 of this Statement.



Results of Life Cycle Assessment

Product system	HEXETATE 3.0 GLASSES
System boundary	☒ from cradle to gate ☐ from cradle to grave ☐ Other:
Functional unit	1 pair of HEXETATE 3.0 GLASSES
Data period/time-related coverage	From April 17, 2026 to May 11, 2026
Manufacturing location	No. 9 Homing Avenue, Yujiang International Glasses Industry Park, Yingtian City, Jiangxi Province, P.R. China
Product Category Rule (PCR)	NA
Life cycle assessment method	IMPACT World+

The results of life cycle assessment are shown in the table below:

Impact category	Unit	Value
Climate change, short term	kg CO ₂ eq	2.94E+00
Climate change, long term	kg CO ₂ eq	2.58E+00
Fossil and nuclear energy use	MJ deprived	3.73E+01
Mineral resources use	MJ deprived	2.02E-02
Photochemical oxidant formation	kg NMVOC eq	1.09E-02
Ozone layer depletion	kg CFC-11 eq	9.85E-09
Freshwater ecotoxicity	CTUe	1.70E+05
Human toxicity cancer	CTUh	4.10E-07
Human toxicity non-cancer	CTUh	1.01E-06
Freshwater acidification	kg SO ₂ eq	4.02E-08
Terrestrial acidification	kg SO ₂ eq	3.23E-05
Freshwater eutrophication	kg PO ₄ eq	8.11E-05
Marine eutrophication	kg N eq	5.76E-04
Particulate matter formation	kg PM _{2.5} eq	1.68E-03
Ionizing radiation	Bq C-14 eq	2.52E+00
Land transformation, biodiversity	m ² yr arable	2.24E-04
Land occupation, biodiversity	m ² yr arable	5.79E-02
Water scarcity	m ³ world eq	6.91E-01

SGS-CSTC Standards Technical Services Co., Ltd. (hereinafter referred to as “SGS”) has been commissioned by HEXETATE TECHNOLOGY CO., LTD. (hereinafter referred to as “the commissioner”) to perform the critical review of the LCA study “LCA Study Report of HEXETATE 3.0 GLASSES, Ver1.0, May 25, 2026.” conducted by HEXETATE TECHNOLOGY CO., LTD. (hereinafter referred to as “the practitioner”) on product system HEXETATE 3.0 GLASSES, in accordance with

ISO 14071:2024

Roles and Responsibilities

The practitioner is responsible for conducting LCA study and preparing the LCA study report, the management of the product life cycle information system, the development and maintenance of records and reporting procedures in accordance with ISO 14040:2006 and ISO 14044:2006, including the calculation and determination of the life cycle environmental impacts of the product system.

SGS is responsible for performing critical review of the LCA study on the product system and expressing an independent review opinion according to ISO 14071:2024.

SGS has conducted an independent review of the LCA study in accordance with ISO 14071:2024 on June 07, 2026. The review was based on the scope, objectives and criteria as agreed between the commissioner and SGS.

The critical review was performed by the following reviewers: Suyi Zhou.

Scope

The client commissioned a critical review to SGS on the LCA study of the product system to identify the conformity with ISO 14040:2006 and ISO 14044:2006 with the scope of the review as outlined below:

- Data resources: the primary data was collected from manufacturing sites. The secondary data was collected from Ecoinvent 3.10.
- Life cycle assessment tool: SimaPro, version 10.1.0.4.
- Cut-off rules: In general, all processes and flows that were attributable to the product system are included. Based on the product input/output proportion, materials/energy inputs/outputs with a mass/energy contribution of less than 1% may be excluded, but the total proportion of excluded materials/energy must not exceed 3%.
- Allocation rules:

- Wherever possible, allocation was avoided.
- Where allocation could not be avoided, allocation was conducted in a way reflecting the underlying physical relationships.
- Allocation was conducted based on economic relationships other than physical relationships.
- Life cycle environmental impacts of the product system included: please refer to the table of results of life cycle assessment above.
- Intended user of the Review and verification statement: Private.

Objective

The objectives of this review were to identify whether:

- the methods used to carry out the LCA were consistent with ISO 14040:2006 and ISO 14044:2006,
- the methods used to carry out the LCA were scientifically and technically valid,
- the data used were appropriate and reasonable in relation to the goal of the study,
- the interpretations reflected the limitations identified and the goal of the study, and
- the study report was transparent and consistent.

Criteria

The criteria used by the practitioner to conduct this LCA were ISO 14040:2006 and ISO 14044:2006, against which SGS used to draw the review conclusion.

The critical review was conducted according to ISO 14071:2024.

Review process

The review was performed by a panel of reviewers commissioned by SGS.

The review panel conducted the review in 2 stages. Stage 1 examined the LCA study report to identify its compliance with the principles and requirements of ISO 14040 and ISO 14044. And then a stage 2 on-site assessment to identify whether the data used were appropriate and reasonable, the principles and requirements of ISO 14040:2006 and ISO 14044:2006 were met or not.

The review was performed at the end of the LCA study.

The review included an assessment of the LCI and LCIA model and calculation.

The review included an analysis of individual data sets.

The comments by the reviewer were provided through the critical review report to the commissioner and practitioner, who has responded the comments and implemented revisions where necessary.

Conclusion

The practitioner has conducted the LCA in accordance with the requirements of ISO 14040:2006

and ISO 14044:2006.

SGS's approach was risk-based, drawing on an understanding of the risks associated with reporting the life cycle environmental impacts of product information and the controls in place to mitigate these risks. Our examination included an assessment of evidence relevant to the amounts and disclosures in relation to the organization's reported life cycle environmental impacts of the product system.

This statement shall be interpreted with the LCA study report of the product system. If the life cycle environmental impacts of the product change by more than 10%, it shall undergo re-review by SGS to maintain the validity of this statement.

Note: This Statement is issued, on behalf of the Client, by SGS-CSTC Standards Technical Services Co., Ltd. ("SGS") under its General Conditions for Review and verification Services available at http://www.sgs.com/terms_and_conditions.htm. The findings recorded hereon are based upon an audit performed by SGS. A full copy of this statement, the findings and the supporting Assertion may be consulted at the commissioner. This Statement does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.

This LCA Critical Review statement is executed in English, with a Chinese version provided. In the event of any discrepancies between the translations, the English version shall take precedence.