

# Product Carbon Footprint Verification Statement

The Product Carbon Footprint study of  
**1 tonne H-9100 Liquid Photosensitive Solder Resist Ink**  
which is conducted by

## **Huizhou Rongda Sensory Technology Co., Ltd.**

L3 Plot in Daya Bay Petrochemical Zone, Huizhou City, Guangdong Province, P.R. China

has been verified meeting the requirements of

### **ISO 14067:2018**

The carbon footprint of 1 tonne H-9100 Liquid Photosensitive Solder Resist Ink is  
3786.87 Kilogram of CO<sub>2</sub> e

For the life cycle stages of product:

#### **Cradle to Gate**



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SGS-CSTC Standards Technical Services Co., Ltd. (hereinafter referred to as “SGS”) has been commissioned by Huizhou Rongda Sensory Technology Co., Ltd. (hereinafter referred to as “Huizhou Rongda”), for the verification the life cycle Greenhouse Gas emissions of product as provided by Huizhou Rongda in accordance with

## **ISO 14067:2018**

### **Roles and responsibilities**

Huizhou Rongda is responsible for the management of its GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of the life cycle GHG emissions of product information and the reported life cycle GHG emissions of product.

It is SGS’s responsibility to express an independent GHG verification opinion on the life cycle GHG emissions of 1 tonne H-9100 Liquid Photosensitive Solder Resist Ink.

SGS conducted a third-party verification of the provided GHG assertion against the principles of ISO 14067:2018, ISO 14040:2006 and ISO 14044:2006 in the period from 2024.10.28-2024.10.30. The verification was based on the verification scope, objectives and criteria as agreed between Huizhou Rongda and SGS.

### **Level of Assurance**

The level of assurance agreed is that of reasonable assurance.

### **Scope**

Huizhou Rongda has commissioned an independent verification by SGS of reported the life cycle GHG emissions of product of H-9100 Liquid Photosensitive Solder Resist Ink arising from the manufacture of H-9100 Liquid Photosensitive Solder Resist Ink product activities, to establish conformance with ISO 14067:2018 principles within the scope of the verification as outlined below.

This engagement covers verification of emission from life cycle of the product of greenhouse gases included within the organization’s boundary and is based on ISO 14067:2018.

- Title or description activities: GHG verification of the life cycle GHG emissions of H-9100 Liquid Photosensitive Solder Resist Ink.
- Product Category Rule: there was no relevant PCR can be considered.

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- Declared unit: 1 tonne H-9100 Liquid Photosensitive Solder Resist Ink.
- System boundary: Covers a “Cradle to Gate” assessment of the partial life cycle emissions, from raw material extraction to production phase. The system boundary be clearly defined in accordance with ISO 14040:2006, ISO 14044:2006 and ISO 14067:2018.
- Use phase: Excluded in system boundary
- Retail locations: Excluded in system boundary
- Disposal phase: Excluded in system boundary
- Data resources: The primary data collection from manufacture and own operation phase. The secondary data collection from Ecoinvent 3.9.
- Life cycle assessment tool and index using:
  - Software applied SimaPro 9.5 version.
  - IPCC 2021 GWP values are applied in this inventory.
- Cut-off rules: The flow is less than 1% of the cumulative mass of the model it be excluded, providing its environmental relevance is not a concern, a minimum 97% of the total mass for the system is captured.
- Allocation rules:
  - Multi-output: The allocations are based on the changes in the resource consumption and pollutant emissions following the changes in the studied system’s output product, or function or economical relationship.
  - Multi-input: The allocation is based on actual relationship. For example, the manufacturing process’s consumption may be affected by the change in recycled resource input.
- Manufacturing locations: L3 Plot in Daya Bay Petrochemical Zone, Huizhou City, Guangdong Province, P.R. China.
- Emissions and removal of the product system included: please refer to the CFP study reported provided by Huizhou Rongda: (PCFHZH305660001-02).
- Types of GHGs included: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, Substances controlled by the Montreal Protocol, HFCs, PFCs, Fluorinated ethers, Perfluoropolyether, Hydrocarbons compounds.
- Mitigation: There is no GHG emissions offsetting be used at any point in the life cycle of the product.
- GHG information for the following production period was verified: 2024.01.01 to 2024.06.30, emissions covered the particular period.
- Intended user of the verification statement: Clients

## Objective

The purposes of this verification are, by review of objective evidence, to independently review:

- Whether the life cycle GHG emissions and removals of product are as declared by the

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organization's CFP study report;

- The data reported are accurate, complete, consistent, transparent and free of material error or omission.

### Criteria

Criteria against which the verification assessment is undertaken are the principles of ISO 14067:2018.

The IPCC 2021 AR6 GWP values are applied in this assessment of life cycle GHG emissions for the product.

### Materiality

The materiality required of the verification was considered by SGS to 5%, based on the needs of the intended user of the GHG Assertion.

### Conclusion

Huizhou Rongda provided the GHG assertion based on the requirements of ISO 14067:2018. The life cycle GHG information of product for the production period from 2024.01.01 to 2024.06.30 disclosing emissions of CO<sub>2</sub> equivalent, covering a Cradle to Gate system boundary, are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

The life cycle GHG emissions of H-9100 Liquid Photosensitive Solder Resist Ink. are described as below:

Life Cycle Phase	GHG Emissions	Unit
Raw material phase	3378.61	kg CO <sub>2</sub> e
Manufacture phase	408.27	kg CO <sub>2</sub> e
Total	3786.87	kg CO <sub>2</sub> e

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting the life cycle GHG emissions of product information and the controls in place to mitigate these. Our examination includes assessment, on a test basis, of evidence relevant to the amounts and disclosures in relation to the organization's reported the life cycle GHG emissions of product.

We planned and performed our work to obtain the information, explanations and evidence that we considered necessary to provide a reasonable level of assurance that the life cycle GHG emissions of 1 tonne H-9100 Liquid Photosensitive Solder Resist Ink.

We conducted our verification with regard to the GHG assertion of Huizhou Rongda which included

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assessment of GHG information system, monitoring and reporting plan/protocol. This assessment included the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, were consistently and appropriately applied

In SGS's opinion the presented GHG assertion

- is materially correct and is a fair representation of the GHG data and information, and
- is prepared in accordance with ISO 14067:2018 on GHG quantification, monitoring and reporting.

This statement shall be interpreted with the CFP study report of 1 tonne H-9100 Liquid Photosensitive Solder Resist Ink (PCFHZH305660001-02) and this result shall be valid for a maximum period of two years.

Note: This Statement is issued, on behalf of Client, by SGS-CSTC Standards Technical Services Co., Ltd. ("SGS") under its General Conditions for Green Gas Verification Services available at [http://www.sgs.com/terms\\_and\\_conditions.htm](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 GHG Assertion may be consulted at Huizhou Rongda Sensory Technology Co., Ltd., L3 Plot in Daya Bay Petrochemical Zone, Huizhou City, Guangdong Province, P.R. China. 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.