



Happy Green Packaging by Starkson Packaging Inc.

## Polypropylene Cups, Polystyrene Cutleries

Starkson Polypropylene (PP) Cups and Polystyrene (GPPS) Cutleries are food safe and are made with an additive that increases biodegradation in landfill conditions. These products are made to order in a variety of colors.

Products/Ranges:	PP Cups, GPPS Cutlery
Product Stages Assessed:	Whole of life + In-Use
Product Type:	Food and Beverage Utensils and Containers
CSI Masterformat:	N/A
Licenced Site/s:	Philippines
Licence Number:	SPI:PC01:2023:PH
Licence Date:	06th February 2023
Valid To:	06th February 2024
Standard:	GGT International v4.0
Screening Date:	06th February 2024
PHD URL:	<a href="http://www.globalgreentag.com/getfile/13181/phd.pdf">www.globalgreentag.com/getfile/13181/phd.pdf</a>

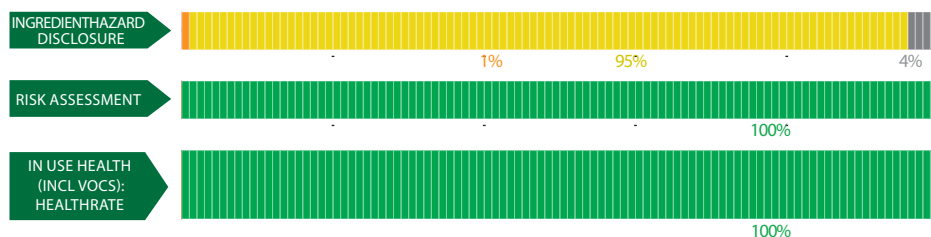


<b>PHD Summary</b>	<b>Inventory Threshold:</b>	<b>Inventory Method:</b>
Percentage Assessed: <b>100%</b>	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant.
- Meets Green Star \* 'Performance v1.2' as a Compliant Technical Document (Audited) for ~ Credit 21: Procurement & Purchasing (Consumables).
- Highly unlikely worker, user, and environmental exposure to any Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors.

INGREDIENT HAZARD DISCLOSURE, RISK ASSESSMENT, & IN USE HEALTH, % by mass. See over for explanation.

ASSESSMENT:



Declared by:  
Global GreenTag  
International Pty Ltd

**David Baggs**  
CEO & Program Director  
Verified compliant with:  
ISO 14024 & ISO 17065

## 1.0 Scope

The Global GreenTag International (GGT) Product Health Declaration (PHD) has been designed to provide an additional level of service to the green product sector in facilitating an easier understanding of both the hazard and risk associated with any certified products and is intended to indicate:

- Chemical hazards of both finished product and unique ingredients to a minimum level of 100ppm for final product throughout the product life cycle, (including any VOC or other gaseous emissions);
- An assessment of exposure or risk associated with ingredient handling, product use, and disposal in relation to established mitigation and management processes;

It is not intended to assess:

- substances used or created during the manufacturing process unless they remain in the final product; or
- substances created after the product is delivered for end use (e.g., if the product unusually degrades, combusts or otherwise changes chemical composition).

GGT PHDs are only issued to products that have passed GGT Standards' certification requirements. The Level of Assessment (BronzeHEALTH, SilverHEALTH GoldHEALTH or PlatinumHEALTH) rating relates ONLY to GGT Standard Sustainability Assessment Criteria 3, and is declared separately to the overall Bronze, Silver Gold or Platinum Green Tag Certification Mark Tier Levels.

## 1.2 Preparing an PHD

GGT PHDs are prepared using Hazard Classifications from the UN Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and as an outcome of a successful Application for Certification. Assessments are undertaken by GGT Qualified Exemplar Global Lead Auditors and subsequently accepted for Certification by the GGT Program Director (also a Qualified Exemplar Global Lead Auditor) under the Personal Products Standard v1.0/1.1, and Cleaning Products Standard v1.1/1.2 and above Program Rules.

## 1.3 External Peer Review

Every GGT PHD is independently peer reviewed by an external Consultant Toxicologist and Member of the Australian College of Toxicology & Risk Assessment.

## 2.0 Declaration of Ingredients

Where a manufacturer wishes recognition under a rating program that requires transparency of ingredients such as LEED v4.0 & v4.1, WELL v1 & v2, Living Building Challenge, Estidama etc., the following information is declared from audit:

Colour	Ingredient Name
Green	Ideal- Low No concerns- ingredient safe at any level based on current known science, % of the ingredient, and relevance to use context'
Yellow	Medium to Low Hazardous Ingredient with minor level of "Issue of Concern" depending on % of the ingredient, hazard level, and relevance to use context'
Orange	Moderate Hazardous ingredient with "Issue of Concern" or "Issue of Concern Minimised" depending on % of the ingredient, hazard level, and relevance to use context'
Red	Problematic (Red): Target for Phase Hazardous ingredient with 'Red Light" or "Red Light Minimised" concern depending on % of the ingredient, hazard level, and relevance to use context'
Dark Red	Very Problematic (Dark Red): Target for Phase Very Hazardous ingredient with 'Red Light Exclusion" concern depending on % of the ingredient, hazard level, and relevance to use context'
Grey	Uncategorised Not able to be categorised due to lack of toxicity impact information.
Black	Banned Ingredients Petroleum, Parabens plus a wide range of compounds stipulated by cleaning/personal products standards.
















Global GreenTag International Pty Ltd (Global GreenTag) is not a medical professional organisation. Global GreenTag does not purport to provide medical advice, and makes no warranty, representation, or guarantee regarding the declaration that it provides in relation to any allergies, chemical sensitivities or any other medical condition, nor does Global GreenTag assume any liability whatsoever arising out of the application or use of any product or piece of equipment that has been chemically assessed by Global GreenTag.

The chemical assessments carried out provide transparent information peer reviewed by a consultant toxicologist regarding the chemical make-up and ingredients of certain materials and products, but such assessments are not to be taken as any form of medical assessment or health advice and are not targeted towards providing specific solutions to allergenic conditions or any other type of medical concerns.

Users must carry out their own investigations if they are concerned about specific medical conditions and the impact of certain products or ingredients in relation to specific medical concerns.

Global GreenTag takes no responsibility and is not liable in any way with respect to any medical or health issues arising from a person's use of materials or products that have been chemically assessed by Global GreenTag. Global GreenTag shall not be liable for any direct, indirect, punitive, incidental, special or consequential damages to property or life whatsoever, arising out of or connected with the use or misuse of any materials or products that have been assessed by Global GreenTag.

Ingredient Name	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	REACH Compliance	Ingredient Assessment	Whole Of Life Assessment	In Use Health Assessment	Comment
Material: Resin (PP cups only)								
Polypropylene homopolymer	Polymer	>95%	IARC Groups 3 (Not Classifiable to Humans)	OK				IARC Group 3 means that there is no evidence that this substance is a carcinogen but lacks definitive proof that there is no risk which is why it this material has some risk attached to it. Workplace health and safety policy is in place which limits worker exposure to this substance. This substance is significantly transformed in the final product where it is not expected to be hazardous to users. Recycled Content: None Nanomaterials: Unknown
Proprietary	Additive	1-5%	None Declared	OK				This substances has no declared hazards. Workplace health and safety policy is in place which limits worker exposure to this substance. This substance is significantly transformed in the final product where it is not expected to be hazardous to users. Recycled Content: None Nanomaterials: Unknown
Material: Resin (GPPS Cutleries only)								
Polystyrene	Polymer	>95%	IARC Groups 3 (Not Classifiable to Humans)	OK				IARC Group 3 means that there is no evidence that this substance is a carcinogen but lacks definitive proof that there is no risk which is why it this material has some risk attached to it. Workplace health and safety policy is in place which limits worker exposure to this substance. This substance is significantly transformed in the final product where it is not expected to be hazardous to users. Recycled Content: None Nanomaterials: Unknown
Material: Biodegradable Additive								
Proprietary	Additive	>95%	None Declared	OK				This substances has no declared hazards. Workplace health and safety policy is in place which limits worker exposure to this substance. This substance is significantly transformed in the final product where it is not expected to be hazardous to users. Recycled Content: None Nanomaterials: Unknown
Material: Colorant								
Proprietary	Pigment (see substance declaration)	1-5%	None Declared	OK				This substances has no declared hazards. Workplace health and safety policy is in place which reduces worker exposure to this substance. This substance is not expected to be hazardous to users. Recycled Content: None Nanomaterials: Unknown
Titanium dioxide	13463-67-7	1-5%	H351 (Inhalation)	OK				This substance is naturally abundant in the environment. Risk are associated with the small particle size. Workplace health and safety policy is in place which limits worker exposure to this substance. This substance is embedded and cured in the final product where it is not expected to be hazardous to users. Recycled Content: None Nanomaterials: Yes

Proprietary	Processing Aid	1-5%	Not Classified	OK				This substance does not have any identifiable hazards. Recycled Content: None Nanomaterials: None
Proprietary	Opacifier	1-5%	Not Classified	OK				This substance does not have any identifiable hazards. Recycled Content: None Nanomaterials: None
Proprietary	Carrier	1-5%	Not Classified	OK				This substance does not have any identifiable hazards. Recycled Content: None Nanomaterials: Unknown
Proprietary	Polymer	1-5%	H226 (Flam. Liq. 3) H315 (Skin Irrit. 2) H319 (Eye Irrit. 2) H332 (Acute Tox. 4)	OK				Workplace health and safety policy is in place which limits worker exposure to this substance. This substance is significantly transformed in the final product where it is not expected to be hazardous to users. Recycled Content: None Nanomaterials: Unknown
Proprietary	Processing Aid	1-5%	Not Classified	OK				This substance does not have any identifiable hazards. Recycled Content: None Nanomaterials: Unknown

\* No GHS H-Statement classification

Comments:

Starkson PP cups were tested for anaerobic biodegradation in 2021 using ASTM D5511-12 where in a 36 week period there was 22.4% biodegradation.  
Starkson cutlery were tested for anaerobic biodegradation in 2021 using ASTM D5511-12 where in a 36 week period there was 22.5% biodegradation.