GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PhD™ Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
CERT TM
Silver HEALTH
trust brands™

Logomas Packaging
ECOBOX® Degradable Polystyrene Foam Food Containers

Scope of Range:	ECOBOX® boxes, bowls and plates
Life Cycle Assessed:	Raw materials, manufacturing, in-use
Licenced Site/s:	Malaysia
Licence Number:	LOG-001-v1-2018 LOG-002-v1-2018 LOG-001-v3-2018
Licence Date:	3rd May 2018
Valid To:	3rd May 2021
Standard:	GGT International v4.0
Assessment Year:	2018

This PhD ceases currency when original GreenTag GreenRate/LCARate certification expires or is revoked. Please check www.globalgreentag.com for currency.

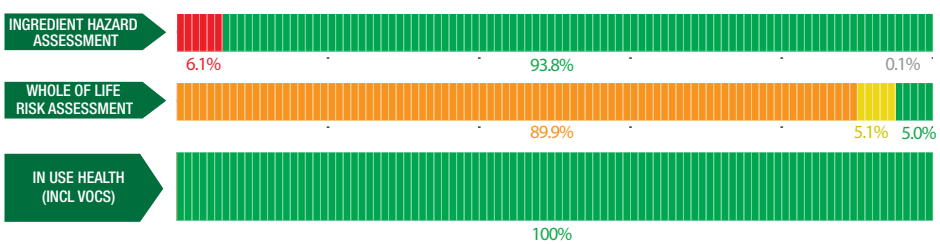
The Global GreenTag Product Health Declaration has been designed to provide an additional level of service to the green product sector in facilitating an easier industry understanding of both the health hazard and risk (if any) associated with any certified product/s.

PhD Summary
Percentage Assessed: 100%

Declaration Limit: 100ppm

- GreenTag Banned List Compliant
- Product Meets Optimisation requirements - No Grey or Red Light category ingredients
- Very low worker exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- Very low user exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- Very low environmental exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors

MANUFACTURING, IN USE, & END OF LIFE STAGES
% by mass. See over for explanation.



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 each homogeneous ingredient 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:

i. substances used or created during the manufacturing process unless they remain in the final product; or

ii. 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 GGT International Standard v4.0, Personal Products Standard v1.0, and Cleaning Products Standard v1.0 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, Living Building Challenge, Estidama etc., the following information is declared from audit:

Colour	Ingredient Name
Green	**Ideal- Low** No Comment required
Yellow	**Medium to Low** No Comment, or 'Issue of Concern' required depending on % of ingredient.
Orange	**Moderate** 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient. Limit 10%
Red	**Problematic (Red): Target for Phase** 'Issue of Concern' or 'Red Light' Comment depending on % of ingredient. Strict Upper Limit of 1%
Grey	**Uncategorised** Not able to be categorised due to lack of toxicity impact information.
Black	**Banned Ingredients** POPs, SVHCs plus a wide range of compounds depending on specific Standard requirements

Ingredient Name	Function	GHS, IARC and Endocrine Category	Hazard Assessment (Raw)	After Detailed Risk Assessment	Comment
Polystyrene	Polymer	Not classified Endocrine Disrupt 1 IARC 2B Skin Irrit. 2 Flam. Liq. 3 Eye Irrit. 2 Acute Tox. 4 Asp. Tox. 1 Aquatic Chronic 3 STOT RE 1 Repr. 2 STOT SE 3	 	 	The hazardous monomer used to manufacture the polystyrene resin may be present in the finished resin at residual concentrations that are extremely low and therefore not considered to be a risk according to the US FDA. Furthermore the finished product has passed food safety requirements (US FDA and EU). One remaining issue of concern is the unknown impacts of visibly accumulating plastic litter as well as degraded microplastics in oceans and river systems.

Proprietary	Prodegradant	IARC 3			This additive consists of polyethylene with a pro-degradant compound, allowing the product to start breaking down once exposed to UVs.
Calcium stearate	Lubricant	STOT SE 3			None
Talc	Void control	IARC 1			Talc contains crystalline silica, a broadscale, endemic naturally occurring compound. In powder form, crystalline silica is classified as carcinogenic by inhalation. However, it does not trigger any issue of concern under the GreenTag risk assessment as it is not expected to cause harm as present in the end product.
Liquefied Petroleum Gas	Blowing agent	Carc. 1A Muta. 1B Flam. Gas 1 IARC 1			LPG may contain small amounts of 1,3 butadienne. The GHS and IARC classifications are related to this ingredient and are not considered to be a risk as present in the end product.

Comments: The product has been tested for food contact safety [American Food and Drug Administration (FDA) standard 21CFR177.1640] [European Commission Regulation (EU) No 10/2011] and absence of heavy metals [EPA 3050B/EPA6010C:2007]