GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™
Product Health Declaration

Global GreenTag CertTM Certified
BRONZE HEALTH
HealthRate™

Raven Products

Weather Strip - TPE & Aluminium Door Bottom - Nylon Seals

Raven TPE weather stripping seals provide a durable, low-closing-force compression seal for door and window joinery systems that is flexible and designed for use in wooden kerfs, aluminium, and PVC systems where dimensions allow. Aluminium Door Bottom - Nyon Seals are dense heat-resistant nylon bristles locked onto an aluminium spine providing door protection against energy loss, weather, noise, fire, smoke, insects, and bushfire embers.

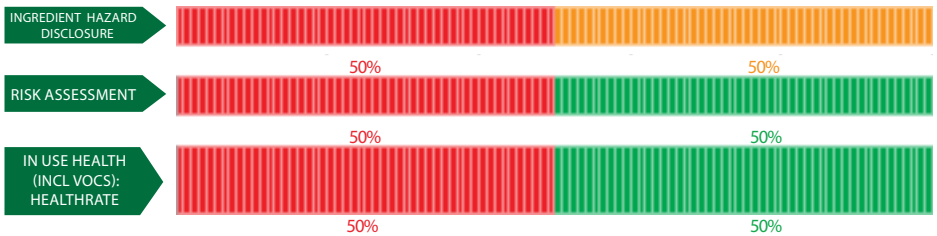
Products/Ranges:	Weather Strip - TPE & Aluminium Door Bottom - Nylon Seals
Product Stages Assessed:	Manufacturing + In-Use
Product Type:	Windows & Door Seals
CSI Masterformat:	07 90 00
Licenced Site/s:	Jiangsu, China
Licence Number:	RAV:RV03:2025:PH
Licence Date:	12th May 2025
Valid To:	6th May 2027
Standard:	GGT International v4.1
Screening Date:	11th February 2025
PHD URL:	www.globalgreentag.com/certificate/2936

PHD Summary	Inventory Threshold:	Inventory Method:
Percentage Assessed: 100%	100ppm Product Level	Nested Materials

- GreenTag Banned List Compliant.
- GreenTag PHD recognized by WELL ® & LEED ® Material Transparency & Optimization credits included below:
- Meets IWBI ® WELL ® v1.0 as Recognized for ~ Feature 26 (Part 1); Feature 97 (Part 1); as a Compliant Technical Document (Audited) for ~ Feature 11 (Part 1); Feature 25 (Part 3, 4) , and, meets IWBI ® WELL ® v2.0 as Recognized for ~ X07 (Parts 1, 3); X08 (Part 2); as a Compliant Technical Document (Audited) for ~ X01 (Part 1); X07 (Part 2); X08 (Part 1).
- Meets USGBC LEED ® v4.0 and v4.1 Rating Tool Credit as Recognized for MR Credit: Building Product Disclosure and Optimisation - Material Ingredients - Option 1: Material Ingredient Reporting, Option 2: International ACP - REACH Optimisation.
- Independent third party assessment for 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

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 risks 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:

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) of a PHD rating relates ONLY to a Human Health Toxicity Assessment and is declared separately and not equivalent to the overall Bronze, Silver Gold or Platinum Green Tag Certification Mark Tier Levels of LCARate.

1.2 Preparing a PHD

GGT PHDs are prepared in the format of a transparency document which utilizes Hazard Classifications from the UN Globally Harmonised System of Classification and Labelling of Chemicals (GHS). Hazard Classifications are then risk assessed with a focus on the In Use stage for an outcome of 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 International Standard v4.0/4.1, Personal Products Standard v1.0/1.1, or 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 Australasian 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 ® v1.0 & v2.0, Green Star ®, the following information is declared from the audit:

Colour	Ingredient Hazard Disclosure
Green	Level 4 The hazard level of this ingredient indicates that the ingredient has no toxic hazard statements with no identified health effects.
Yellow	Level 3 The hazard level of this ingredient indicates that the ingredient is mildly toxic and/or has short/medium term reversible health effects.
Orange	Level 2 The hazard level of this ingredient indicates that the ingredient is moderately toxic and/or with a moderate health effects.
Red	Level 1 The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects.
Black	Level 0 The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects and is banned from being detectable above trace amounts in the final product.
Grey	Grey Chemical Not able to be categorised due to lack of toxicity impact information.

Colour	Risk Assessment & In Use Health Assessment Outcome
Green	No Concerns The risk assessment outcomes for the hazard level and percentage of ingredient used in the product after risk assessment is considered highly unlikely and therefore without concerns.
Yellow	Human Health Comment The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low with an unlikely potential risk.
Orange	Issue of Concern or Issue of Concern Minimised The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low to high with a higher than unlikely potential for risk.
Red	Red Light Comment or Red Light Comment Minimised The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered low to extremely high with a moderate potential for risk.
Dark Red	Red Light Exclusion The risk assessment outcome for the hazard level and percentage of ingredient used in the product is after risk assessment considered medium to extremely high with a likely potential for risk.
Grey	Grey Chemical Not able to be categorised due to lack of toxicity impact information.
Black	Banned Ingredients Level 0 Hazard Level categorised chemicals such as Substances of Very High Concern in the International Standard v4.0/v4.1 and/or Petroleum, Parabens plus a wide range of additional compounds stipulated by the Personal Products Standard v1.0/1.1 and Cleaning Products Standard v1.1/1.2

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 Hazard Disclosure	Risk Assessment	In Use Health Assessment	Comment
Material: Thermoplastic Elastomer								
Benzene, ethenyl-, polymer with 1,3-butadiene, hydrogenated	66070-58-4	85-100%	H413 (Aquatic Chronic 4), H332 (Acute Tox. 4 (Inhalation)), H412 (Aquatic Chronic 3)	OK				This chemical has an acute toxicity hazard for inhalation when there is 1 gram of dust per cubic meter of air according to the GHS. However, this amount of dust formation from the material is highly unlikely during the In-Use stage. There are No Concerns for the In-Use stage. Recycled Content: None Nano Materials: Unknown
1-Butene, polymer with ethene and 1-propene	25895-47-0	15-30%	None	OK				This chemical is not classified as hazardous with no REACH registered classified hazards provided to ECHA. This In-Use risk assessment scenario identifies No Concerns for human health Recycled Content: Unknown Nano Materials: Unknown
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100 °F (19cSt at 40 °C). It contains relatively few normal paraffins.]	64742-52-5	15-30%	H350 (Carc. 1B)	OK				The carcinogenity hazard has been studied through ingestion of mineral oils, however this route of exposure is highly unlikely. The potential exposure to dermal and inhalation is highly unlikely especially since the chemical is formed into a solid product. There are No Concerns for the In-Use Stage. Recycled Content: Unknown Nano Materials: No
3,6-Bis(bromomethyl)-1,2,4,5-tetrabromobenzene	39568-99-5	30-50%	H341, H351, H361	OK				The high molecular weight of this substance above 500 g/mol reduces the risk of dermal absorption. The greatest risk of this substance is due to degradation of the door or window seal and formation of inhalable dust particles. According to ECHA and EPA DSSTox Classication this chemical is of emerging concern and predicted as likely to meet criteria for carcinogentiy, mutagenicity or reproductive toxicity however further testing is not available. This In-Use risk assessment scenario identifies a Red Light Comment for human health. Recycled Content: Unknown Nano Materials: Unknown"
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	2082-79-3	0.01-1%	None	OK				This chemical is not classified as hazardous with no REACH registered classified hazards provided to ECHA. This In-Use risk assessment scenario identifies No Concerns for human health. Recycled Content: Unknown Nano Materials: Unknown
Materials: Nylon Brushstrip								

Nylon-66	32131-17-2	5-15%	H315	OK				The hazards relate to inhalation during manufacturing if heating is applied. This is unlikely during the in-use stage. There are no concerns identified for the in-use stage. Recycled Content: None Nano Materials: Unknown
Glass oxide	65997-17-3	5-15%	H350	OK				The fibre glass is a potential hazard when inhaled. During the in-use stage there is an unlikely risk of inhalation. There are no concerns for human health during the in-use stage. Recycled Content: None Nano Materials: Unknown
Brominated Flame Retardant	Flame Retardant	5-15%	H341, H351, H361	OK				This material is within the nylon filament in the In-Use stage. We have assessed the risk of this chemical based and determined based on the precautionary principle this substance is of emerging concern and predicted as suspected to meet criteria for carcinogentiy, mutagenicity or reproductive toxicity however further testing is not available. This In-Use risk assessment scenario identifies a Red Light Comment for human health. Recycled Content: None Nano Materials: Unknown
Antimony Trioxide	1309-64-4	1-5%	H351	OK				The hazard statement is for suspected carcinogentiy and is likely only for inhalation exposure with potentially hazardous levels only entering the environment if the product is broken and formed into a dust, which is highly unlikely during the In-Use stage. There are no concerns for human health during the in-use stage. Recycled Content: None Nano Materials: Unknown
Carbon Black	1333-86-4	0.01-1%	IARC 2B	OK				The hazards relate to inhalation during manufacturing if heating is applied or as a powder. This is unlikely during the in-use stage. There are no concerns identified for the in-use stage. Recycled Content: None Nano Materials: Unknown
Material: Metals								
Aluminium	No Cas Number	40 - 60%		OK				Metals are not considered a high risk homogenous ingredient under the Global GreenTag International Standard and are derogated from assessment. There are No Concerns raised for the In-Use Health Assessment. Recycled Content: None Nano Materials: Unknown
Steel	No Cas Number	1 - 10%		OK				Metals are not considered a high risk homogenous ingredient under the Global GreenTag International Standard and are derogated from assessment. There are No Concerns raised for the In-Use Health Assessment. Recycled Content: None Nano Materials: Unknown

* No GHS H-Statement classification

Comments:

This certificate covers product family categories:

TPE Weather Stripping Seals:
RP600
RP610
RP620
RP630
RP640
RP650
RP660
RP670
RP680

Aluminium Door Bottom Sweep Seals - Nylon:
RP2
RP2A
RP2B
RP15
RP41
RP49
RP50
RP51F
RP52F
RP57
RP58
RP74
RP74F
RP75
RP129F