# PHD™
## Product Health Declaration

Global GreenTag CertTM Certified
GOLD HEALTH
HealthRate™

## Raven Products

## Aluminium Perimeter and Door Seal - EPDM

These products are highly regarded for meeting heavy traffic installations. Featuring an automatic door bottom and perimeter seal, they feature an EPDM foam gasket for acoustic door applications to stop the transfer of noise as well as light and smoke to an accompanying room. For product ranges covered see p.6 of this declaration.

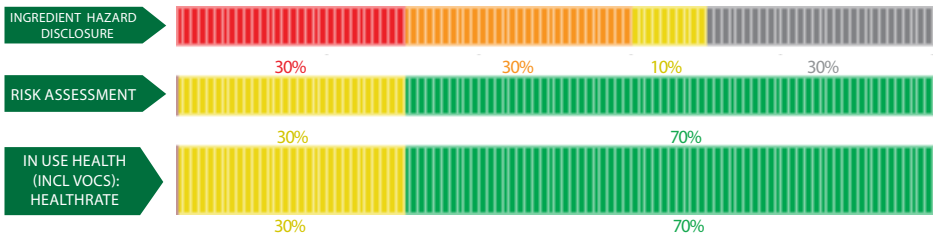
| | |
|---|---|
| Products/Ranges: | Aluminium Perimeter and Door Seal EPDM |
| Product Stages Assessed: | Manufacturing + In-Use |
| Product Type: | Window and Door Seals |
| CSI Masterformat: | 07 90 00 |
| Licenced Site/s: | Jiangsu, China |
| Licence Number: | RAV:RV02:2025:PH |
| Licence Date: | 12th May 2025 |
| Valid To: | 06th May 2027 |
| Standard: | GGT International v4.1 |
| Screening Date: | 11th February 2025 |
| PHD URL: | www.globalgreentag.com/certificate/2938 |

| 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); X05 (Part 2); 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<br>The hazard level of this ingredient indicates that the ingredient has no toxic hazard statements with no identified health effects. |
| Yellow | Level 3<br>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<br>The hazard level of this ingredient indicates that the ingredient is moderately toxic and/or with a moderate health effects. |
| Red | Level 1<br>The hazard level of this ingredient indicates that the ingredient is highly toxic with a potential for severe health effects. |
| Black | Level 0<br>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<br>Not able to be categorised due to lack of toxicity impact information. |

| Colour | Risk Assessment & In Use Health Assessment Outcome |
|---|---|
| Green | No Concerns<br>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<br>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<br>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<br>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<br>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<br>Not able to be categorised due to lack of toxicity impact information. |
| Black | Banned Ingredients<br>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: Metals | | | | | | | | |
| Aluminium | No Cas Number | 5 - 100% | | 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.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Steel | No Cas Number | 1 - 70% | | 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.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Brass | No Cas Number | 1-5% | | 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.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Material: EPDM Seal 3 | | | | | | | | |
| ETHYLENE-PROPYLENE-ETHYLIDENENORBORNENE TERPOLYMER | 25038-36-2 | 15-30% | None, H412 | OK | | | | The human health hazard is breathing in vapours when it's a liquid or heated. Once transformed into the EPDM polymer there are reduced inhalation hazards since the chemical is not easily volatile. The risk assessment concludes it is highly unlikely aspiration hazard during use.There are no concerns identified for human health in the in-use stage.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| 5-ethylidene-8,9,10-trinorborn-2-ene | 16219-75-3 | 1-5% | H332, H411, H304, H226, H373, H315, H317 | OK | | | | The human health hazard is breathing in vapours when it's a liquid. Once transformed into a polymer there are reduced inhalation hazards since the chemical is not easily volatile. The risk assessment concludes it is highly unlikely aspiration hazard as a polymer during use. There are no concerns identified for human health in the in-use stage.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| propene; propylene | 115-07-1 | 5-15% | IARC 3 | OK | | | | The hazard for propene is when it's a gas. Once transformed into a polymer there aren't any inhalation hazards. The risk assessment concludes it is highly unlikely there are any hazards and therefore no concerns identified for human health in the in-use stage.<br><br>Recycled Content: None<br>Nano Materials: Unknown |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| ethylene | 74-85-1 | 5-15% | IARC 3, H336 | OK | | | | The human health hazard is breathing in vapours when it's a liquid or heated. Once transformed into the EPDM polymer there are reduced inhalation hazards since the chemical is not easily volatile. The risk assessment concludes it is highly unlikely aspiration hazard during use. There are no concerns identified for human health in the in-use stage.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Remaining undisclosed Chemicals with CAS or Percentage | Covered by substance declaration | 15-30% | H341, H370 | OK | | | | The manufacturer has declared there are no Substances of Very High Concern (SVHC) but not completed a full declaration for all other hazards. While we can confidently estimate there are no prohibited substances but we we cannot definitely exclude all hazards that may raise an Issue of Concern. Applying the precautionary principle based on their European SDS and declaration of no SVHCs but some potential hazards we determine a Human Health Comment for the in-use stage.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Material: Pile Weather Strip / Polyproylene / Silicone with UV | | | | | | | | |
| Pile Weather Strip / Polyproylene / Silicone with UV | Covered by substance declaration | 15-30% | None | OK | | | | A substanced declaration from this manufacturer declared no hazards. The In-Use risk assessment scenario identifies no concerns for human health.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Material: Polycarbonate | | | | | | | | |
| Poly[oxycarbonyloxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene] | 24936-68-3 | 1-5% | None | OK | | | | This substance is polycarbonate. There has been renewed discussion about the toxicity of BPA even at very low levels forming BPA dust from polycarbonate products. This product is a potential source of BPA but based on information provided the amount is estimated below our 100 ppm assessment threshold. The In-Use risk assessment scenario identifies no concerns for human health.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Glass, oxide, chemicals | 65997-17-3 | 0.01-1% | H350 | OK | | | | The fibre glass is a potential hazard when inhaled. During the in-use stage there is an unlikely risk of inhalation, furthermore Washington State Department of Health has released a statement indicating there is no direct link with cancer. There are no concerns for human health during the in-use stage.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Remaining undisclosed Chemicals with CAS | Filler | 1-5% | None | OK | | | | The manufacturer has declared no hazards of concern for the remaining substances. There are no concerns for the In-Use stage.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Materials: Polyvinyl Chloride | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Ethene, chloro-, homopolymer | 9002-86-2 | 15-30% | IARC 3, None, H319, H335, H315, H362, H412, H400, H410 | OK | | | | PVC microplastics when ingested can induce potentially toxicity effects in humans at low levels however ingestion is highly unlikely when used as a building product during the In-Use phase. The inhalation risk over the In-Use lifetime when this substance is bound as a polymer and mounted to the door and sealing frames is unlikely. Currently, there are No Concerns identified for human health.<br><br>Recycled Content: Unknown<br>Nano Materials: Unknown |
| Bis(2-ethylhexyl) terephthalate | 6422-86-2 | 5-15% | None | OK | | | | This material is a part of a solid material in the final product. We have assessed the risk of this chemical based on indentified hazards from the ECHA repository.<br>There were no hazards identified and therefore No Concerns are identified for the material In-Use stage for this PHD HealthRATE Assessment.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Aluminium hydroxide | 21645-51-2 | 1-5% | None | OK | | | | This material is a part of a solid material in the final product. We have assessed the risk of this chemical based on indentified hazards from the ECHA repository.<br>There were no hazards identified and therefore No Concerns are identified for the material In-Use stage for this PHD HealthRATE Assessment.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Calcium carbonate | 471-34-1 | 1-5% | H318, H335, H315 | OK | | | | This material is a part of a solid material in the final product. We have assessed the risk of this chemical based on indentified hazards from the ECHA repository.<br>There were hazards relevant for inhalation risk identified but since this is not present as a powder in the final product but a solid bound material therefore No Concerns are identified for the material In-Use stage for this PHD HealthRATE Assessment.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Rutile (TiO2) | 1317-80-2 | 0.01-1% | None | OK | | | | This material is a part of a solid material in the final product. We have assessed the risk of this chemical based on indentified hazards from the ECHA repository.<br>There were no hazards identified and therefore No Concerns are identified for the material In-Use stage for this PHD HealthRATE Assessment.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Zinc distearate | 557-05-1 | 5-15% | None | OK | | | | This material is a part of a solid material in the final product. We have assessed the risk of this chemical based on indentified hazards from the ECHA repository.<br>There were no hazards identified and therefore No Concerns are identified for the material In-Use stage for this PHD HealthRATE Assessment.<br><br>Recycled Content: None<br>Nano Materials: Unknown |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Calcium distearate | 1592-23-0 | 5-15% | None | OK | | | | This material is a part of a solid material in the final product. We have assessed the risk of this chemical based on indentified hazards from the ECHA repository.<br>There were no hazards identified and therefore No Concerns are identified for the material In-Use stage for this PHD HealthRATE Assessment.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Ethene, homopolymer | 9002-88-4 | 5-15% | IARC 3, H412, H335, H373, H315, H334, H319, H317 | 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.<br><br>Recycled Content: None<br>Nano Materials: Unknown |
| Material: Soft Open Cell Polyurethane Seal | | | | | | | | |
| Double Sided Adhesive Tape | Foam Tape | 5-15% | None | OK | | | | This material is a foam tape t in the In-Use stage. We have assessed the risk of this chemical based on Substance Declaration. There were no hazards declared by identified manufacturer therefore No Concerns are identified for the material In-Use stage for this PHD HealthRATE Assessment.<br><br>Recycled Content: None<br>Nano Materials: Unknown |

* No GHS H-Statement classification

Comments:

This certificate covers product family categories:

Aluminium Perimeter Seal - EPDM:
RP24

Aluminium Automatic Door Bottom Seal - EPDM:
RP38
RP70