

PHD™

Product Health Declaration

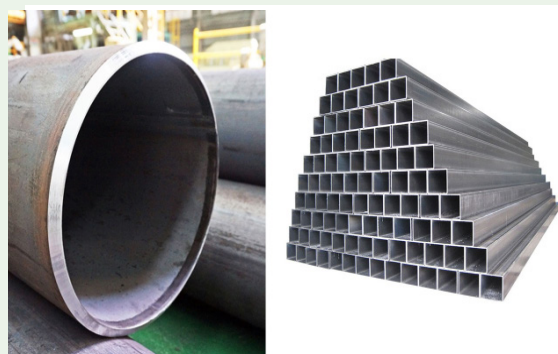


Tianjin Yuantai Derun Pipe Manufacturing Group Co., Ltd

Steel Hollow Sections

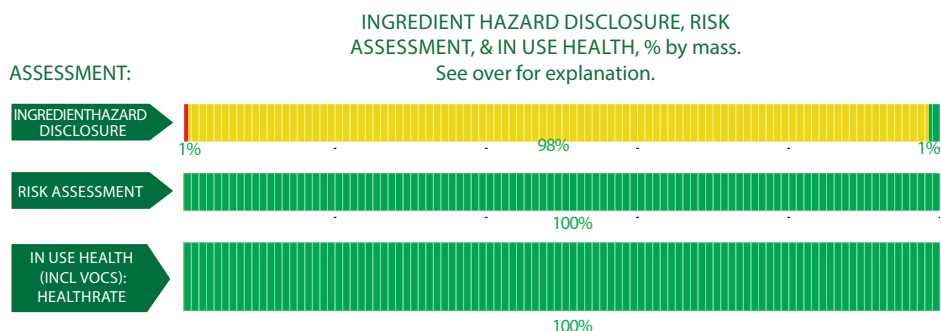
Square, Circular and Rectangular steel hollow section profiles, available in different sizes and grades: Chinese grade low carbon steels: Q195 and Q215A/B; Chinese grade mild steels Q235GJB/C/D, Q345GJC/D/E, Q345B & Q345GJB, Q390GJC/D/E, Q460GJE/D/E; Chinese grade low alloy steels Q420GJC/D/E and Q460GJE/D/E; EN-grade mild steels S235JRH/JOH/J2H, S275JRH/JOH/J2H, S275NH and S355JRH/JOH/J2H, S355NH; Japanese Grade mild steels SS490 and SS400; American grade mild steels A500GA/GB, A500GC, A501GR.A and A501 GR.B; EN-grade low alloy steels S420JOH and S460NH/S460JOH.

| | |
|---------------------------------|---|
| Products/Ranges: | Rectangular, Circular and Square Hollow Sections |
| Product Stages Assessed: | Manufacturing and in-use |
| Product Type: | Structural Steel for Buildings |
| CSI Masterformat: | 05 12 23 |
| Licenced Site/s: | Tianjin China |
| Licence Number: | TIA:TI01:2021:PH |
| Licence Date: | 24th September 2021 |
| Valid To: | 24th September 2024 |
| Standard: | GGT International v4.0 |
| Screening Date: | 21st September 2022 |
| PHD URL: | http://www.globalgreentag.com/getfile/12952/phd.pdf |



| | | |
|----------------------------------|-----------------------------|--------------------------|
| 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 Green Star * 'Buildings v1.0' as Recognized for~ Credit 6: Responsible Structure
- Meets IWBI * WELL * v1.0 as Recognized for ~ Feature 26 (Part 1); Feature 97 (Part 1); and, meets IWBI * WELL * v2.0 as Recognized for ~ X07 (Parts 1, 3); X08 (Part 2); as a Compliant Technical Document (Audited) for ~ 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.



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 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:

- 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) 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. |

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 | Exposure Category | Ingredient Assessment | Whole Of Life Assessment | In Use Health Assessment | Comment |
|----------------------------|------------------------|--------------------------------|--------------------------------|--------------------------------------|---|--|---|--|
| Material: Structural Steel | | | | | | | | |
| Iron | 7439-86-9 | 98 | H251,H228 | Self-heat. 1, Flam. Sol. 1 |  |  |  | Iron is alloyed with the final steel product. There is very rare chance for end users to be irritated. |
| Carbon | 481066-70-0 | 0.12 | None | None |  |  |  | The substance pose no risks to end-users |
| Manganese | 7439-96-5 | 0.5 | H411,H412 | Aquatic Chronic 3, Aquatic Chronic 2 |  |  |  | Manganese is alloyed with the final steel product. There is very rare chance for end users to be irritated. |
| Silicon | 7440-21-3 | 0.3 | None | None |  |  |  | The substance pose no risks to end-users |
| Sulphur | 7440-34-9 | 0.04 | H315 | Skin Irrit. 2 |  |  |  | Sulphur is alloyed with the final steel product. There is very rare chance for end users to be irritated. |
| Phosphorus | 7723-14-0 | 0.035 | H228,H412 | Flam. Sol. 1, Aquatic Chronic 3 |  |  |  | Phosphorus is alloyed with the final steel product. There is very rare chance for end users to be irritated. |
| Aluminium | 7429-90-5 | 0.015 | H261,H228 | Water-react. 2, Flam. Sol. 1 |  |  |  | Aluminium is alloyed with the final steel product. There is very rare chance for end users to be irritated. |