

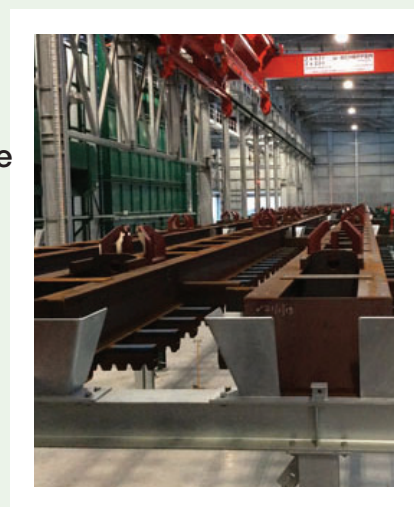


# Kingfield Galvanizing Hot Dip Galvanized Steel

**Products/Ranges:** Hot Dip Galvanized Steel for use in  
**Product Stages Assessed:** Urban, Marine & Dry Zones  
 Material inputs, manufacturing, in-use  
 Somerton, Australia  
**Licenced Site/s:** KFG-001-v1-2016  
**Licence Number:** 18th December 2018  
**Licence Date:** 18th December 2021  
**Valid To:** GGT International v4.0  
**Standard:** 18th December 2018  
**Assessment Year:**

This PhD ceases currency when original GreenTag GreenRate/LCARate certification expires or is revoked. Please check [www.globalgreentag.com](http://www.globalgreentag.com) for currency.

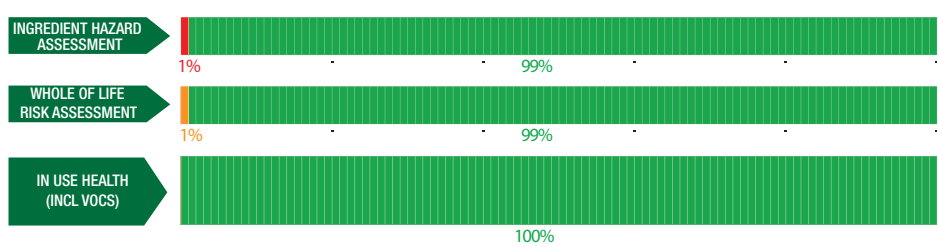
The Global GreenTag Product Health Declaration has been designed to provide an additional level of service to the green product sector in facilitating an easier industry understanding of both the health hazard and risk (if any) associated with any certified product/s.



**PhD Summary**  
 Percentage Assessed: **100%** Declaration Limit: **100ppm**

- GreenTag Banned List Compliant
- Product Meets Optimisation requirements - No Grey or Red Light category ingredients
- Meets WELL™ Building Standard: Feature 26 Part 1: Precautionary Material Selection
- Meets WELL™ Building Standard: feature 97: Material Transparency
- 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;
- HealthRate level that reflects risks associated with the product in-use.

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 in use risk assessment based on 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	<b>Ideal- Low</b> No Comment required
Yellow	<b>Medium to Low</b> No Comment, or 'Issue of Concern' required depending on % of ingredient.
Orange	<b>Moderate</b> 'Issue of Concern'.
Red	<b>Problematic (Red): Target for Phase</b> 'Red Light' Comment.
Grey	<b>Uncategorised</b> Not able to be categorised due to lack of toxicity impact information.
Black	<b>Banned Ingredients</b> POPs, SVHCs plus a wide range of compounds depending on specific Standard requirements

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	GHS, IARC and Endocrine Category	Ingredient Assessment (Raw)	Whole Of Life Assessment	In Use Health Assessment	Comment
<b>Function: Galvanizing</b>					
Special high grade zinc	Acute Aq. 1. Chron. Aq. 1.	<99%			Components of this alloy are naturally occurring and do not pose risks to end-users of galvanized steel due to unreactive nature in use
<b>Function: Fluxing</b>					

Zinc ammonia chloride	Acute Tox 4. Skin Corr. 1B. Acute Aq. Tox. 1. Chronic Aq.Tox. 1	<1%			During the Galvanizing process phase, Contact with this chemical may lead to irritation of the respiratory tract, eyes and skin. Kingfield Galvanizing operates under an internally monitored occupational health and safety system therefore the risks are considered low at the galvanizing phase. Once reacted in the Galvanizing process, this substance is not expected to cause harm for the end-user of the coated product.
<b>Function:</b> Galvanizing					
Hega-alloy DAST	Acute Aquatic 1. Chron. Aquatic 1.	<1%			Components of this alloy are naturally occurring and do not pose risks to end-users of product due to unreactive nature in use.
<b>Function:</b> Corrosion inhibitor					
Sodium dichromate liquid	Carc. 1A. Mut. 1A. Repr. 1A. Acute Tox. 2. Acute Tox. 3. STOT RE. 1. Acute Tox. 4. Resp Sens. 1. Skin Sens. 1.	<0.01%			This chemical ingredient is well below the declaration limits of the GreenTag PhD program because of the amount used in the galvanizing process. Risks associated with the use of this chemical is non existent due to the sealed nature of the Galvanizing process. Kingfield also operates under an internally monitored occupational health and safety system therefore the risks are considered low at the galvanizing phase.
<b>Function:</b> Acid pickling					
Hydrochloric acid	Skin Corr. 1B. STOT SE 3.	<0.01%			This chemical ingredient is well below the declaration limits of the GreenTag PhD program. The sealed nature of the galvanizing process also prevents contact with this chemical. Thus, the risk is minimized.
<b>Function:</b> Cleaning					
Ammonia	Acute Tox. 4. Skin Corr. Sub 1B. Acute Tox. 1.	<0.01%			Risks associated with the use of this chemical is non existent due to the sealed off nature of the Galvanizing process. This chemical ingredient is also well below the declaration limits of the GreenTag PhD program because of the amount used in the galvanizing process.
<b>Function:</b> Degreasing and paint removal					
Caustic soda (NaOH)	Skin Corr. 1B. Eye Dam. 1	<0.01%			Risks associated with the use of this chemical is non existent due to the sealed off nature of the Galvanizing process. This chemical ingredient is also well below the declaration limits of the GreenTag PhD program because of the amount used in the galvanizing process.

Function: Cleaning

Galviclean Mixture	Skin Corr. 2. Eye Irrit. 2. STOT SE. 3	<0.01%			Risks associated with the use of this chemical is non existent due to the sealed off nature of the Galvanizing process. This chemical ingredient is also well below the declaration limits of the GreenTag PhD program because of the amount used in the galvanizing process.
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