GLOBAL GREEN TAG INTERNATIONAL PTY LTD

PHD™

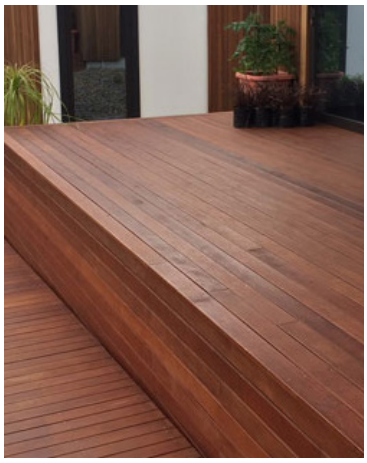
Product Health Declaration

GLOBAL GREENTAG HEALTH RATE
CERT TM
Gold HEALTH
trust brands™

Koppers Performance Chemicals

MicroPro® Wood Treatment Technology

Koppers' MicroPro® wood treatment technology is a micronized copper azole (MCA) based preservative applied to wood by a pressure impregnation process. The purpose of the treatment is predominantly for structural uses. MicroPro® treated wood can be used for a variety of applications including decks, fences, landscaping, fresh water docks, agricultural and general construction uses. Wood products treated with the MicroPro® preservative technology provide protection against fungal decay, insect attack and termites.



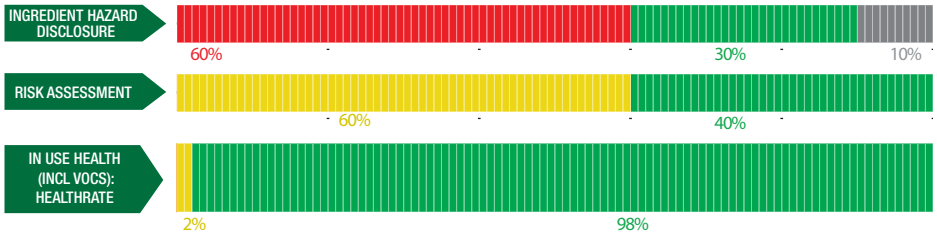
Products/Ranges:	MicroPro® Wood Treatment Technology
Product Stages Assessed:	Raw materials, manufacturing, in use
CSI Masterformat:	06 05 73.91 Long-Term Wood Treatment
Licenced Site/s:	Millington USA
Licence Number:	KOP:KO01:2021:PH
Licence Date:	18th August 2021
Valid To:	11th September 2023
Standard:	GGT International v4.0
Screening Date:	24th August 2022
PHD URL:	https://www.globalgreentag.com/getfile/12850/phd.pdf (New Zealand) https://www.globalgreentag.com/getfile/12851/phd.pdf (Australia)

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

- GreenTag Banned List Compliant
- Meets Green Star Buildings v1.0 Credit 13: Exposure to Toxins, Green Star Design & As Built v1.3 Sustainable Products, Green Star Interiors v1.3 Credit 21: Sustainable Products
- Meets USGBC LEED® v4.0 and v4.1 Rating System MR Credit: "Building Product Disclosure and Optimisation - Material Ingredients"- Option 1: Material Ingredient Reporting and Option 2 - International ACP - REACH Optimisation.
- Meets WELL™ v1.0 Features 97: Material Transparency, Feature 4: VOC Reduction, Feature 26 Enhanced Material Safety and, WELL™ v2.0 Precondition (Part 1), Features – X07: Material Transparency (Part 1&3), X08: Material Optimisation (Part 1&2), X06: VOC Restrictions.
- Low worker and user exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptors
- Low environmental exposure to Carcinogens, Mutagens, Reproductive Toxicant or Endocrine Disruptor

ASSESSMENT:

INGREDIENT HAZARD DISCLOSURE, RISK ASSESSMENT, & IN USE HEALTH, % 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 a 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 concerns- Ingredient safe at any level based on current known science, % of the ingredient, and relevance to use context.
Yellow	**Medium to Low** Hazardous Ingredient with minor level of "Issue of Concern" depending on % of the ingredient, hazard level, and relevance to use context.
Orange	**Moderate** Hazardous Ingredient with "Issue of Concern" depending on % of the ingredient, hazard level, and relevance to use context.
Red	**Problematic (Red): Target for Phase** Hazardous Ingredient with 'Red Light" Concern depending on % of the ingredient, hazard level, and relevance to use context.
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	CAS Number OR Function	Proportion in finished product	GHS, IARC & Endocrine Category	Ingredient Assess-ment	Whole Of Life Assess-ment	In Use Health Assess-ment	Comment
Copper Carbonate							
Copper Carbonate	12069-69-1	40-60%	Acute Tox.4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), STOT SE 3 (H335)				The concentration is transferred via a pipe into tanks through a computer controlled flow meter measuring system to eliminate any human exposure. The highly diluted solution is used to treat the wood in an enclosed pressure rated vessel. According to US EPA's leaching test and wipe test, the leaching rate is as low as 5% of total Copper Carbonate in the dilution. The intake/absorbtion of copper carbonate is far below the limit. The risk is significantly reduced, and is considered safe in use. Recycled Content: Unknown Nanomaterials: No
Water							
Water	7732-18-5	20-40%	None				Recycled Content: Unknown Nanomaterials: No
Dispersant 1							
Proprietary	Additive	1-10%	None				No hazards were declared in "Substance Declaration". Recycled Content: Unknown Nanomaterials: Unknown
Calcium Nitrite 30% water sollution							
Proprietary	Unknown	0.5-1.5%	None				No hazards were declared in "Substance Declaration". Recycled Content: Unknown Nanomaterials: Unknown
Proprietary	Corrosion inhibitor	0.1-1%	Acute Tox. 3 (H301), Eye Irrit. 2 (H319)				The extremely low concentration of corrision inhibitor in dilution has negligible risk. Recycled Content: Unknown Nanomaterials: Unknown
Tebuconazole							
Tebuco-nazole	107534-96-3	1-2%	Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Repr. 2 (H361d), End. Disr. cat.3,				Acceptable Exposure Level (AEL) medium and long term is 0.03mg/kg body weight per day according to WHO. Tebuconazole is diluted at 0.04% concentration in final use. The wood treatment is predominantly used for decks, fences, lanscaping, fresh water docks, agricultural and other general construction uses. Toddler's hand-to-mouth behaviour and dermal contact may be a concern when it is applied to an uncoated decking. In a coated decking the Tebuconazole will not be accessible to the end-user. Recycled Content: Unknown Nanomaterials: Unknown
Dispersant 2							
Proprietary	Additive	0.1-1%	None				No hazards were declared in "Substance Declaration". Recycled Content: Unknown Nanomaterials: Unknown

H-Statement:
H301, H302, H315, H319, H335, H361d, H400, H410, H411, Endocrine Disruptory 3

Comments:
1) The percentage of each ingredient assessed in this Product Health Declaration is in concentrate form.
2) Dust mask and goggles are required when cutting or sanding timber.
3) Preserved timber may be disposed of in landfills or burned in commercial or industrial incinerators or boilers.
4) The product receives UL GreenGuard certification for low VOC emission.