



JTS ENGINEERING SDN. BHD.

Aluminium Base Metal & Aluminium Deox

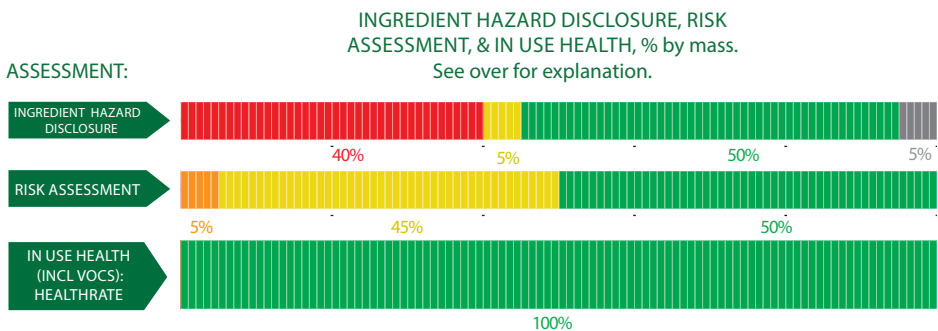
Aluminum base metal is a non-specific aluminum alloy that contains the major elements like (Al >90%, Fe >1%, Si <10%) and other trace elements for the production of specific alloys used in the automotive, electronic, building and construction or even electrical cable industry.

Products/Ranges:	Aluminium Deox & Base metal
Product Stages Assessed:	Manufacturing + In-Use
Product Type:	Industrial Products
CSI Masterformat:	N/A
Licenced Site/s:	Pasir Gudang, Johor, Malaysia
Licence Number:	JTS:AL01:2024:PH
Licence Date:	14th February 2024
Valid To:	14th February 2026
Standard:	GGT International v4.0
Screening Date:	19th September 2023
PHD URL:	https://www.globalgreentag.com/certificate/2545/



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), and meets IWBI® WELL® v2.0 as Recognized for X07 (Parts 1); 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

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.
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
Aluminium Base Metal								
Aluminium	7429-90-5	85-100%	H228 H261	OK				No identifiable risk to end user. Recycled Content: Post-C Nanomaterials: No
Silicon	7440-21-3	5-15%	None	OK				No identifiable risk to end-user. However, the factory workers has proper PPE usage to reduce hazards associated with ingredient via inhalation. Recycled Content: Post-C Nano Materials: No
Iron	7439-89-6	0.01-1%	H251, H228	OK				The hazard associated with ingredient is flammable solid, which is a common hazard in aluminium recycling plant. No identifiable risk to end user. Recycled Content:None Nanomaterials: unknown
Granulated copper	7440-50-8	1-5%	H411	OK				The ingredient can be toxic to aquatic environment, but it is in granulated form which reduce its risk to leach to aquatic environment. No identifiable risk to end user. The ingredient will be inert in its final product stage and do not have any hazard to End user. Recycled Content:None Nanomaterials: unknown
Manganese	7439-96-5	0.01-1%	H411, H412	OK				The ingredient can be hazardous to aquatic environment. JTS has proper environmental policy in place to reduce environmental pollution. No identifiable risk to end-user. Recycled Content: None Nano Materials: Unknown
Magnesium powder	7439-95-4	0.01-1%	H250, H260	OK				The hazard associated with ingredient is flammable solid, which is a common hazard in aluminium recycling plant. No identifiable risk to end-user. Recycled Content: None Nano Materials: Unknown
Chromium	7440-47-3	0.01-1%	None	OK				No identifiable risk to end-user. Recycled Content: None Nano Materials: Unknown
Nickel powder	7440-02-0	0.01-1%	H351, H372 H317, H412	OK				The ingredient may have skin and aquatic toxicity. It may also cause cancer or organ damage. However, JTS Engineering uses proper PPE like gloves, respiratory mask, eye wear so that the manufacturing workers are mitigated from this hazards. No identifiable risk to end-user. Recycled Content: None Nano Materials: Unknown
Zinc powder	7440-66-6	0.01-1%	H400, H410	OK				No identifiable risk to end-user. The ingredient can have detrimental impacts to aquatic environment, however it will be inert in the final product. The ingredient is in powder form and JTS ensure proper handling of chemicals to reduce environmental risk. Recycled Content: None Nano Materials: Unknown
Titanium	7440-32-6	0.01-1%	None, H228	OK				No identifiable risk to end-user. Recycled Content: None Nano Materials: Unknown

Lead powder	7439-92-1	0.01-1%	H360FD, H362 H400, H410	OK				No identifiable risk to end-user. The presence of lead is due to the recycling process involved in the Aluminium alloy to improve machinability. The amount of Lead is low and the hazards associated with the ingredient to the factory workers are mitigated by proper OHS plan and safe PPE usage. JTS also has an Environmental Policy in place. Recycled Content: None Nano Materials: Unknown
Tin	7440-31-5	0.01-1%	None	OK				No identifiable risk to end-user. Recycled Content: None Nano Materials: Unknown
Aluminium Deox								
Aluminium	7429-90-5	30-50%	H228, H261	OK				No identifiable risk to end user. Recycled Content:None Nanomaterials: unknown
Aluminium oxide	1344-28-1	50-70%	H302, H332, H351	OK				The ingredient can irritate respiratory organs if inhaled for long period of time. JTS ensures proper PPE usage to reduce this hazards to factory workers. No identifiable risk to end user. Recycled Content: None Nano Materials: No
Silicon dioxide	7631-86-9	5-15%	None	OK				No identifiable risk to End-user. Recycled Content: None Nano Materials: No
Nitrogen	7727-37-9	5-15%	H280, H281, H335, H315, H340, H332, H319, H350	OK				The ingredient may have hazard such as flammable solid, skins, eye and respiratory irritation if inhaled for a period of time. JTS engineering uses proper PPE usage ensures safe handling of chemicals. Recycled Content: None Nano Materials: No
Iron oxide	1345-25-1	0.01-1%	None	OK				No identifiable risk to end user. Recycled Content: Unknown Nano Materials: Yes
Magnesium Oxide	1309-48-4	1-5%	H319, H315, H410, H317, H335, H371, H302, H318, H304, H361, H336, H400, H225, H373, H332, H334, H411	OK				The ingredient may cause hazardous impacts on skin, eye, reproductive system and aquatic life. The percentage of ingredient is low and proper PPE usage of the JTS factory workers ensure safe handling of chemical. There is no identifiable risk to enduser. Recycled Content: None Nano Materials: No
Proprietary	Oxides	1-5%	None	OK				No identifiable risk to End-user. Recycled Content: None Nano Materials: No

GHS H-Statement classification:

H251/H228: Flammable solid
H302/H304 (Fatal if swallowed)
H311 (Toxic skin contact)
H314(skin/eye damage)
H315 (Skin irritation)
H317 (Allergic skin reacion)
H318(Eye damage)
H317(Allergic skin reaction)
H330 (Fatal if inhaled)
H332 (Harmful if inhaled)
H350 (May cause cancer)
H373 (May cause organ damage)
H400/H413 (Very toxic to aquatic life)