

Hana Semiconductor (AYT) Co., Ltd.

**Supplier Certificate
Banned and Reportable Substances Disclosure**

Section 1: General Information

Company Name	ULTRACORE CO., LTD.
Prepared by	Ms.Kanlaya Phaphon
Telephone/Fax	662-3946532/662-3946531
E-Mail	kanlaya@ultracore.co.th
Address	1417 Moo4, Soi Sriboonrung1, Teparak Rd., T.Teparak, A.Muang, Samutprakarn

Section 2: Material or Product Information

Material or Product Name and Description	Tin Ball 99.90
Supplier Part Number	Tin Ball 99.90
Hana Part Number	

Section 3: Banned and Reportable Substance Disclosure

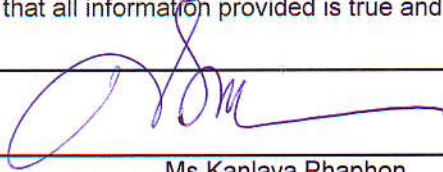
Substances	Hana Category	Reporting Threshold	Results		Remark
			Pass (Compliance)	Fail (Not Compliance)	
Cadmium (Cd) and its compounds	Banned	5 ppm	Pass		
Chromium VI (Cr ⁶⁺) and its compounds	Banned	100 ppm	Pass		
Lead (Pb) and its compounds	Banned	500 ppm	Pass		
Mercury (Hg) and its compounds	Banned	100 ppm	Pass		
Polybrominated Biphenyls (PBBs) and its derivatives	Banned	100 ppm	Pass		
Polybrominated Diphenyl Ethers (PBDEs) and its derivatives	Banned	100 ppm	Pass		
Polychlorinated Biphenyls (PCB)	Reportable	0 ppm/ Non-Intentionally Added	Pass		
Polychlorinated Naphthalenes (PCN)	Reportable	0 ppm/ Non-Intentionally Added	Pass		
Polychlorinated Terphenyls (PCT)	Reportable	0 ppm/ Non-Intentionally Added	Pass		

Substances	Hana Category	Reporting Threshold	Results		Remark
			Pass (Compliance)	Fail (Not Compliance)	
Chlorinated Paraffin (CP)	Reportable	0 ppm/ Non-Intentionally Added	pass		
Tributyltin (TBT)/Tributyltin Compounds	Reportable	0 ppm/ Non-Intentionally Added	pass		
Triphenyltin (TPT)/Triphenyltin Compounds	Reportable	0 ppm/ Non-Intentionally Added	pass		
Asbestos	Reportable	0 ppm/ Non-Intentionally Added	pass		
Specific Azo Compounds	Reportable	0 ppm/ Non-Intentionally Added	pass		
Formaldehyde	Reportable	0 ppm/ Non-Intentionally Added	pass		
Polyvinyl Chloride (PVC) and PVC Blends	Reportable	0 ppm/ Non-Intentionally Added	pass		
Ozone Depleting Substances - CFCs/Isomers - HBFCs/Isomers - HCFCs/Isomers - Carbon tetrachloride	Reportable	Non-Intentionally Added	pass		
Radioactive Substances	Reportable	Non-Intentionally Added	pass		
Antimony/Antimony Compound	Reportable	0 ppm/ Non-Intentionally	pass		400 ppm max not intentionally add
Arsenic/Arsenic Compound	Reportable	0 ppm/ Non-Intentionally	pass		300 ppm max not intentionally add
Beryllium/Beryllium Compound	Reportable	0 ppm/ Non-Intentionally	pass		
Bismuth/Bismuth Compound	Reportable	0 ppm/ Non-Intentionally	pass		300 ppm max not intentionally add
Phthalates	Reportable	0 ppm/ Non-Intentionally	pass		
Selenium/Selenium Compounds	Reportable	0 ppm/ Non-Intentionally	pass		
Brominated Flame Retardants (other than PBBs or PBDEs)	Reportable	0 ppm/ Non-Intentionally	pass		
Halogen Free (F, Cl, Br, I)	Reportable	0 ppm/ Non-Intentionally	pass		

Section 4: Certification

The undersigned hereby certifies that he/she is an employee of the company in Section 1 above who has the authority to sign for the company. Furthermore, the undersigned certifies that the material or product listed in Section 2 above complies with Hana specifications PFA021 and that all information provided is true and correct to the best of that company's knowledge and belief.

Signature



Name

Ms. Kanlaya Phaphon

Title

QA MANAGER

Date

23/1/2008

Note

1. Instructions for completing this form are found in - Spec#PFA021: Hazardous Substance controlled Procedure, Item 7.2: Supplier's Responsibilities.

Supplier's responsibilities

1. Direct and packing materials and products are supplied to Hana shall comply with all applicable Hana regulations.
 2. Suppliers shall certify compliance with this specification by:
 - Completing and returning Supplier Certification/Banned and Reportable Substances Appendix III of this specification.
 - Signing of the Supplier Certification/Banned and Reportable Substances Disclosure by an employee of the supplier who has the authority to sign for the company.
 - Providing hazardous substances test reports which issued by accredited laboratory.
 3. Compliance of direct and packing materials with this specification shall be certified:
 - Upon initial qualification
 - Upon a notifiable change per applicable material procurement specification
 - Annually
 4. Confirming hazardous substance analytical data for Cadmium (Cd), Lead (Pb), Hexavalent Chromium(Cr6+), Mercury (Hg), Polybrominated Biphenyls (PBBs) and Polybrominated Biphenyl Ethers (PBBEs) shall be submitted with the Supplier Certification/Banned and Reportable Substances Disclosure.
 - Hazardous substances analysis shall be done by third party laboratory using an internationally recognized standard.
 - Analytical data shall be from hazardous analysis done in the same calendar year the data is required by Hana or else analytical data must be less than 1 year since the date of issued.
 - Analytical data shall include:
 1. Third party lab report or data sheet in English or accompanied with an English translation.
 2. Name and description of material
 3. Analytical method used
 4. Date of analysis
 5. Signature or name of third party laboratory authorized person.
 5. Up-to-date MSDSs shall be provided for direct and packing materials.
 - Suppliers shall provide MSDSs for all direct materials used in Hana.
 - MSDSs shall be provided upon initial qualification and when MSDSs are revised.
 - MSDSs shall be sent to the EHS (Environment Health and Safety) department of 'Hana.
 6. Suppliers shall have a system in place to prevent the purchase, use and shipment of hazardous substances.
2. HANA Category :
- Banned Substances – Substance subject to:
 1. Currently enacted legislation, which prohibits or restricts its use or sale, requires reporting, or subjects it to other regulatory requirements, or
 2. Hana Semiconductor (AYT) Co., Ltd. prohibitions or restrictions.
 - Reportable Substances – Substances are not currently banned or controlled for use but a ban or voluntary phase-out is likely or they have an impact on the end-of-life management of the finished product.



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Supplier Part Number	TIN BALL 99.99
Hana Part Number	

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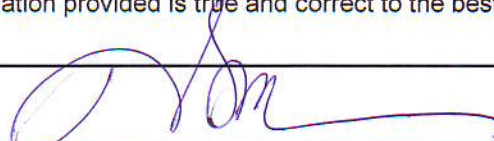
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