

May.22, 2007 C-70553E

To : Hana Semiconductor(Ayutthaya) Co.,Ltd.

Certificate

We hereby certify that the hazardous substances listed on the attached sheets aren't used intentionally as ingredient(s) for the following products manufactured by Shin-Etsu Electronics(M) Sdn.Bhd.

Moreover, the contents of RoHS substances as impurities don't exceed their threshold limits.

On the other hand, regarding substances whose threshold limits are 0ppm, some substances cannot be analyzed.

Moreover, detection limits of other substances by chemical analysis are more than 0ppm.

Therefore, although we can assure that these substances aren't used intentionally, we cannot assure that their contents as impurities are 0ppm.

Product : KMC-3580P-8, KMC-3580P-14F

This investigation is conducted only for the products themselves.

Packing materials are out of scope of the investigation.

Our liability under this Certificate shall not exceed the purchase price of the particular shipment with respect to which the claims are made and shall not include liability for special, incidental, indirect, punitive or consequential damages.



Masanori Seino
General Manager
Quality Assurance Department
Gunma Complex
Shin-Etsu Chemical Co.,Ltd.

Hana Semiconductor(AYT) Co.,Ltd.

Supplier Certificate Banned and Reportable Substances Disclosure

Section 1: General Information

Company Name	Shin-Etsu Chemical Co.,Ltd.
Prepared by	Tomokazu Washio / Customer Adviser of QA Dept.(Gunma Complex)
Telephone/Fax	81-27-385-2172 / 81-27-385-2753
E-Mail	
Address	2-13-1 Isobe Annaka Gunma Japan

Section 2: Material or Product Information

Material or Product Name and Supplier Part	KMC-3580P-8
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	Banned	100 ppm	X		
Chromium VI (Cr ⁶⁺) and its	Banned	1000 ppm	X		
Lead (Pb) and its compounds	Banned	1000 ppm	X		
Mercury (Hg) and its compounds	Banned	1000 ppm	X		
Polybrominated Biphenyls (PBBs)	Banned	1000 ppm	X		
Polybrominated Biphenyl Ethers	Banned	1000 ppm	X		
Polychlorinated Biphenyls (PCB)	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Polychlorinated Naphthalenes (PCN)	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Polychlorinated Terphenyls (PCT)	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Substances	Hana Category	Reporting Threshold	Results		Remark
			Pass (Compliance)	Fail (Not Compliance)	
Chlorinated Paraffin (CP)	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Tributyltin (TBT)/Tributyltin Compounds	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Triphenyltin (TPT)/Triphenyltin Compounds	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Asbestos	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Specific Azo Compounds	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Formaldehyde	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Polyvinyl Chloride (PVC) and PVC Blends	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Ozone Depleting Substances - CFCs/Isomers	Reportable	Non-Intentionally Added	X		
Radioactive Substances	Reportable	Non-Intentionally Added	X		
Antimony/Antimony Compound	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Arsenic/Arsenic Compound	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Beryllium/Beryllium Compound	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Bismuth/Bismuth Compound	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.

Phthalates	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Selenium/Selenium Compounds	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.
Brominated Flame Retardants (other than PBBs or PBDEs)	Reportable	0 ppm/ Non-Intentionally Added	X		Not intentionally added.

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, Item 7.2: Supplier's Responsibilities and that all information provided is true and correct to the best of that company's knowledge and belief.

Signature



Name

Toshio Shiobara

Title

General Manager of Organic Electronics Materials Dept.

Date

May.22,2007

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. 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 Section.3 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 products 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 (PBDEs) 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 products.
 - Suppliers shall provide MSDSs for all products 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

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Title	General Manager of Organic Electronics Materials Dept.
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