



# SUMITOMO BAKELITE SINGAPORE PTE. LTD.

Company Registration No. 198200616K  
 No. 1 Senoko South Road Singapore 758069  
 Plant Main Tel: 6752 6431 (12 lines) Fax: 6752 6830  
 Marketing & Sales Division Tel: 6755 5550 Fax: 6750 3699, 6750 3698



CERT NO. Q14431



CERT NO. CH97/2017



CERT NO. Q1916

To customer : ASAT  
 Date : 13 September 2004

## **Subject : ENVIRONMENTAL RELATED ENQUIRY**

Pertaining to your enquiry on information, we would like to declare that our product "SUMIKON" EME series as below grade are does not intentionally added and compliance with the maximum allowable limit as in below list.

### **Grades Used :**

EME-G770C and EME-G700

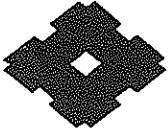
### **Substances List (given by ASAT):**

#### ***Definition of Lead Free, Halogen Free, Antimony Free, RoHS Compliant and Green Compliant Package for Semiconductor Devices***

ASAT defines a package as Lead free, Halogen Free, Antimony Free, ROHS or Green-compliant when the component elements of the package does not contain the following elements intentionally added to the manufacturing process and does not exceed allowable limits specified below. This definition is restricted only to the product and does not include packaging materials such as IC trays, plastic bands, plastic covers, paper-based boxes, blister tapes, etc.

<b>Definition</b>	<b>Substance</b>	<b>Maximum Allowable Limit</b>
Lead Free	Lead	1000 ppm
Halogen Free	Bromine + Chlorine	900 ppm
Antimony Free	Antimony element	900 ppm
<b>RoHS Compliant</b>	<b>Lead</b>	<b>1000 ppm</b>
	<b>Mercury</b>	<b>1000 ppm</b>
	<b>Cd</b>	<b>100 ppm</b>
	<b>Hexavalent Chromium</b>	<b>1000 ppm</b>
	<b>Polybrominated Biphenyl (PBB)</b>	<b>1000 ppm</b>
	<b>Polybrominated Diphenyl Ether (PBDE)</b>	<b>1000 ppm</b>
<b>Fully Green</b>	Lead	1000 ppm
	Mercury	1000 ppm
	Cd	100 ppm
	Hexavalent Chromium	1000 ppm
	Polybrominated Biphenyl (PBB)	1000 ppm
	Polybrominated Diphenyl Ether (PBDE)	1000 ppm
	Bromine + Chlorine	900 ppm
	Antimony element	900 ppm
	Phosphorous ions	Not Used
Tributylene Trioxide	Not Used	

Note: The defined impurity levels above is applicable for all relevant assembly related substances (element and compound ) covered under the RoHS Directive.



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## SBS Remarks:

After clarify with ASAT about the meaning of Phosphorous ion which refer to P+. P+ is not a stable elements and it does not exist by itself.

If the enquiry is asking about Inorganic Phosphorous, then SBS is compliance to the list above.

Thank you very much and we will support the effort toward green environmental program.

Yours faithfully,

See Lee Khoon

QA Manager

Sumitomo Bakelite Singapore Pte Ltd