

November 2008

RE: 1st **REACH SHVC Candidate List & Product Content (Negative) Declaration**

Dear Customer:

Intel manufactures a wide range of products, from microprocessors, through embedded controllers, up to complete OEM systems. A large number of subassemblies and components are purchased from other manufacturers. Intel goes to great lengths to make sure all our products meet applicable legal requirements, and we continually monitor changes in those requirements. We have surveyed our products, and to the best of our knowledge, Intel products are in compliance with all applicable national and international laws and regulations, including those that may restrict the materials content of certain products.

Intel is frequently asked by its customer base about the presence of certain materials in its products. To the best of our knowledge, the following materials are not present in Intel products and are restricted by Intel's Environmental Product Content Specification for Suppliers and Outsourced Manufacturers (https://supplier.intel.com/static/EHS/environmental.htm):

- Asbestos
- Alkanes, C10-13 (Short-chain Chlorinated Paraffins) (See REACH SVHC Table 1 below)
- Certain Azo Colorants
- Hexavalent chromium
- Mercury compounds
- Ozone Depleting Substances (ODS)
- Polybrominated biphenyls and their ethers (PBB, PBDE)
- Polychlorinated biphenyls and terphenyls (PCB, PCT)
- Polychlorinated napthalenes
- Short-chained chlorinated paraffins
- Tributyl tin (TBT) and Triphenyl tin (TPT)
- Tributyl tin oxide (TBTO) (See REACH SVHC Table 1 below)

In addition, the European Union's REACH regulation (Regulation No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals) places obligations as manufacturers, importers and downstream users of chemical substances and preparations. It also places obligations on importers of products. Although the REACH regulation became effective on June 1, 2007, because of delayed application dates, REACH obligations are staggered and become effective in stages; different deadlines apply over the next ten (10) years. At this time, we are not aware of any products manufactured by Intel that would require registration under REACH because "a substance is intended to be released under normal and reasonably foreseeable conditions of use." Article 7(1)(b).

We also are aware that Article 33 of REACH requires suppliers to inform the recipients and consumers if a purchased article contains more than 0.1% (by weight per article) of any substance(s) on the candidate list of Substances of Very High Concern (SVHC). The European Chemical Agency (ECHA) published the first SVHC candidate list on Oct 28, 2008.

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The following REACH first candidate list of SVHCs are applicable to electronic industry parts or products, but are not present in Intel products above the REACH reporting threshold of 0.1 wt% in the article:

Table 1 – 1st REACH Candidate List of SVHCs - Not Present above 0.1 wt % in Intel products

<u>Substance Name</u>	<u>CAS#</u>	<u>EC#</u>
 Alkanes, C10-13 (Short-chain Chlorinated Paraffins) 	85535-84-8	287-476-5
• 4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
Diarsenic pentaoxide	1303-28-2	215-116-9
Diarsenic trioxide	1327-53-3	215-481-4
• Phthalates		
• Dibutyl phthalate (DBP)	84-74-2	201-557-4
• Bis (2-ethyl(hexyl)phthalate) (DEHP)	117-81-7	204-211-0
• Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
Hexabromocyclododecane (HBCDD)	25637-99-4	247-148-1
And major diastereoisomers	3194-55-6	221-695-9
o Alpha-HBCDD	134237-50-6	
o Beta –HBCDD	134237-51-7	
o Gamma-HBCDD	134237-52-8	
Sodium dichromate, dihydrate	7789-12-0	234-190-3
• Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0

The SVHCs below are not applicable to electronic industry parts or products and would not be expected to be found in Intel products above the REACH reporting threshold of 0.1wt% in the article:

Table 2 – 1st REACH Candidate List of SVHCs - Not Expected to be Present in Electronic Industry Parts/Products

<u>Substance Name</u>	<u>CAS#</u>	<u>EC#</u>
• Anthracene	120-12-7	204-371-1
Cobalt dichloride	7646-79-9	231-589-4
• 5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
Lead hydrogen arsenate	7784-40-9	232-064-2
• Triethyl arsenate	15606-95-8	427-700-2

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We encourage all companies to participate in electronic industry efforts to update the Joint Industry Guide (JIG) and IPC 1752 material declaration standards to incorporate the REACH Article 33 reporting requirements. Participation in an industry-wide approach will help maximize efficiency of reporting throughout the supply chain and reduce the inefficiencies experienced under EU RoHS when each company developed their own unique declaration format. If you are interested in participating in these industry standard initiatives please contact:

- JIG Joanne Soneshine, Consumer Electronics Association (CEA), at 703-907-7631 or jsonenshine@ce.org or
- IPC 1752 Fern Abrams, IPC, at (703) 522-0225 or <u>fabrams@ipc.org</u>.

The information provided regarding the material content of our products is true and correct to the best of our knowledge and Intel has systems and due diligence processes in place to determine the content of our products and ensure compliance with all applicable laws and regulations. This information in connection with our products is subject to and limited by Intel's standard terms and conditions for sale of such products.¹

Where Intel has identified products as RoHS compliant in our Material Declaration Data Sheets (MDDS) or IPC 1752 reporting formats (where available), Intel defines RoHS compliance as Lead and other banned materials in the EU RoHS directive are either (1) below all applicable substance thresholds as proposed by the EU or (2) an approved exemption applies. To find product material declarations, please go to URL <u>http://intel.pcnalert.com</u>.

If you have any questions concerning this letter, please contact your Intel Representative. We will continue to monitor the status of future REACH SVHC candidate lists as part of our on-going compliance activities.

Sincerely,

Linda S. Young

Linda Young Product Ecology Program Manager <u>rohs@intel.com</u> <u>http://www.intel.com/intel/other/ehs/product_ecology/</u>

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