



## **RoHS and REACH Declaration of Conformity (DoC) Seagate Momentus Thin Family of Hard Drives**

The European Union Restriction of Hazardous Substances (RoHS) Directive restricts the presence of the following chemical substances in electronic products effective July 2006:

- Lead (Pb)
- Cadmium (Cd)
- Hexavalent Chromium (Cr6+)
- Mercury (Hg)
- Polybrominated Biphenyls (PBB) and
- Polybrominated Diphenyl Ether (PBDE)

To the best of our knowledge Seagate hard disc drives comply with EU RoHS Directive requirements.

A number of parts and materials in Seagate products are procured from external suppliers. We rely on the representations of our suppliers regarding the presence of RoHS substances in these parts and materials. Our supplier contracts require compliance with our chemical substance restrictions, and our suppliers document their compliance with our requirements by providing material content declarations for all parts and materials for Seagate products. Current supplier declarations include disclosure of the inclusion of any RoHS-regulated substance in such parts or materials.

Seagate also has internal systems in place to ensure ongoing compliance with the RoHS Directive and all laws and regulations which restrict chemical content in electronic products. These systems include standard operating procedures that ensure that restricted substances are not utilized in our manufacturing operations, laboratory analytical validation testing, and an internal auditing process to ensure that all standard operating procedures are complied with.

The following products, in addition to meeting the RoHS directive, also meet the EU REACH directive, since the inception on June 1, 2007. This includes SVHCs listed by ECHA as of the date of this document.

Beginning in 2009, certain families of hard disc drives became available in Low Halogen configurations. The Seagate Momentus Thin family of hard disc drives is available in Low Halogen configurations. Low Halogen configurations limit chlorine and bromine in homogeneous materials to 900 ppm (parts per million) each, 1500 ppm total (Cl plus Br). If your company requires a Low Halogen DoC, for a product not listed below as Low Halogen, please consult with your sales or customer quality representative.



Seagate hard disc drives also comply with applicable provisions of “China RoHS” (Administration on Control of Pollution by Electronic Information Products), since its inception on March 1, 2007. Seagate labels disc drives with the appropriate EFUP, and a table denoting use of lead exceeding 1000 ppm, is included in product literature.

## Applicable Exemptions to RoHS Directive

The EU Parliament has released a document dated September 24, 2010 which amends the Annex to 2002/95/EC. With reference to this amended Annex, Seagate does not use Exemption 7(c) -III or any other exemption with expiration dates listed in the Annex.

Seagate disc drives rely on the following RoHS Directive Exemptions for compliance:

Exemption Description
(Exemptions are listed per Annex released September 24, 2010)
6a. Lead as an alloying element in steel containing up to 0.35% lead by weight
6b. Lead as an alloying element in aluminum up to 0.4% lead by weight
6c. Lead as an alloying element in copper containing up to 4% lead by weight
7a. Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead)
7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors (e.g. piezoelectronic devices) or in a glass or ceramic matrix compound

The above exemption list corresponds to the original exemption list provided below for convenience.

Exemption Description
(Exemptions applied before September 24, 2010)
5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes
6a. Lead as an alloying element in steel containing up to 0.35% lead by weight
6b. Lead as an alloying element in aluminum up to 0.4% lead by weight
6c. Lead as an alloying element in copper containing up to 4% lead by weight
7a. Lead in high melting temperature type solders (i.e. lead-based solder alloys containing 85 % by weight or more lead)
7c. Lead in electronic ceramic parts (e.g. piezoelectronic devices)



### Model Numbers

This Declaration of Conformity to the RoHS and REACH Directives, as well as Low Halogen Configurations, for the Momentus Thin Family of hard disc drives, applies to the following Model Numbers:

MOMENTUS THIN FAMILY					
Model	Part	Model	Part	Model	Part
ST500LT012	9WS142	ST320LT012	9WSG4C	ST250LT025	1A5141
ST500LT012	9WSG42	ST320LT025	1A514C	ST250LT015	9WU141
ST500LT025	1A5142	ST320LT015	9WU14C	ST500VT000	1BS142
ST500LT015	9WU142	ST250LT012	9WS141	ST320VT000	1BS14C
ST320LT012	9WS14C	ST250LT012	9WSG41	ST250VT000	1BS141

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