

EU Declaration of Conformity RoHS, REACH and Low Halogen Declaration of Conformity for Seagate CONSTELLATION ES.3 Family of Hard Drives		
1.	No.	0301131216
2.	Name and Address of Manufacturer	Seagate Technology International Koolhovenlaan 1 1119 NB Schiphol-Rijk The Netherlands
3.	This declaration of conformity is issued under the sole responsibility of the manufacturer: Seagate Technology International	
4.	Object of the declaration	Seagate CONSTELLATION ES.3 Family of Hard Drives (Seagate Model Numbers listed in Additional Information below)
5.	The object of the declaration described above is in conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.	
6.	Harmonized Standards/ Technical Specifications	RoHS Directive 2002/95/EC RoHS Directive 2011/65/EU EN50581 China RoHS (March 1, 2007) REACH Directive EC 1907/2006 Low Halogen per JS709A
7.	Additional Information	(Provided below)



Additional Information:

The European Union Restriction of Hazardous Substances (RoHS) Directive 2002/95/EC 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 2002/95/EC as well as RoHS “Recast” Directive 2011/65/EU 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 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 CONSTELLATION ES.3 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 Commission Decision 2010/571/EU dated September 24, 2010 which amends the Annex of 2002/95/EC. With reference to this amended Annex, Seagate does not use Exemption 7(c) -III or any other exemption with an expiration date listed in the Commission Decision 2010/571/EU 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 to stated Low Halogen thresholds, applies to the following Seagate CONSTELLATION ES.3 Family hard disc drive Model Numbers:

Seagate CONSTELLATION ES.3 Family					
Model	Part	Model	Part	Model	Part
ST4000NM0023	9ZM270	ST2000NM0063	1C2275	ST4000NM0113	1EA270
ST4000NM0043	1C1270	ST2000NM0033	9ZM175	ST1000NM0103	1EA173
ST4000NM0063	1C2270	ST2000NM0053	1C1175	ST2000NM0103	1EA175
ST4000NM0033	9ZM170	ST2000NM0073	1C2175	ST3000NM0103	1EA178
ST4000NM0053	1C1170	ST1000NM0023	9ZM273	ST4000NM0103	1EA170
ST4000NM0073	1C2170	ST1000NM0043	1C1273	ST1000NM0093	1DM273
ST3000NM0023	9ZM278	ST1000NM0063	1C1273	ST2000NM0093	1DM275
ST3000NM0043	1C1278	ST1000NM0033	9ZM173	ST3000NM0093	1DM278
ST3000NM0063	1C2278	ST1000NM0053	1C1173	ST4000NM0093	1DM270
ST3000NM0033	9ZM178	ST1000NM0073	1C1173	ST1000NM0083	1DL173
ST3000NM0053	1C1178	ST4000NM0083	1DL170	ST2000NM0083	1DL175
ST3000NM0073	1C2178	ST1000NM0113	1EA273	ST3000NM0083	1DL178
ST2000NM0023	9ZM275	ST2000NM0113	1EA275		
ST2000NM0043	1C1275	ST3000NM0113	1EA278		

Signed for and on behalf of: Seagate Technology International

Place and Date of Issue: Cupertino, CA, USA <May, 2013>

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Brian Martin
Corporate Product Environmental Compliance Director
Cupertino, CA, USA