

**From:** Raffi Sahul [mailto:raffi@trstechnologies.com]  
**Sent:** Monday, October 05, 2015 9:21 PM  
**To:** RoHS exemptions  
**Cc:** Raffi Sahul  
**Subject:** Comments on RoHS exemptions

Dear RoHS committee,

We are manufacturers of lead-based single crystal materials. Many of the customers are unclear about whether the exemption 7(c)-I includes single crystal materials. It is being used for various applications including medical ultrasound, sonar, actuators, disc drives, etc. which is all covered by the term "piezotronic" as mentioned in 7(c)-I. If the term ceramic covers single crystals as well, then it is ok. If not, it might be useful to explicitly state "in a glass or ceramic or **single crystals**" under 7(c)-I to include these in the application domain. It is very important that as the next generation piezoelectric material that the single crystals are covered by the community to be included under the application domain.

Thanks,

Raffi

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#### **Exemption 7(c)-I**

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## RoHS Exemptions - Review of Annex to RoHS Directive: Exemption 7(c)-I

RoHS Exemptions - Review of Annex to RoHS Directive

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"Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound"