

## Specific questions exemption 29

### “Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC”

The following specific questions should be answered in your stakeholder contribution if you support exemption 29 to be continued / amended / discontinued:

1. Please describe the application with its **technical characteristics**: in which RoHS-relevant applications is lead used in crystal glass (please provide a comprehensive list)? What is the technical functionality of lead?
2. Please state the **amount of lead** used per application and in the homogeneous material. What is the amount of lead put on the market in the EU annually in RoHS-relevant applications with crystal glass?
3. Please provide evidence on research efforts carried out with regard to **substitution of lead** (e.g. test results or executive summaries). What alternatives have been found and what are their technical characteristics? When will substitution be possible?
4. In former contributions it has been stated that a substitution of lead would lead to a need for **production process redesign**. If you support this argument, please provide evidence (e.g. quantification of necessary changes for redesign, technical specifications, etc.).
5. Please quantify / technically **specify the drawbacks** caused concerning technical characteristics with regard to the use of alternatives.
6. Please provide evidence on **future activities** towards substitution such as a schematic roadmap or similar evidence.
7. If you support the view that **lead-free crystals** can provide the same product characteristics as leaded crystal, please provide supporting evidence such as test results on e.g. technical functionality / safety / optical & decorative properties, customer satisfaction feedback, effects on life length, environmental impacts etc. Please also provide description of lead-free crystal products falling under the scope of RoHS and put onto the EU market.