

## **Specific questions exemption 21**

### **“Lead and cadmium in printing inks for the application of enamels on borosilicate glass”**

The following specific questions should be answered in your stakeholder contribution if you support exemption 21 to be continued / amended / discontinued:

1. Please describe the application with its **technical characteristics**: in which RoHS-relevant applications are lead and cadmium used in printing inks for glass marking? What is the technical functionality of lead and cadmium?
2. Please give a comprehensive list of RoHS-relevant applications where **marking on glass** is absolutely necessary for its technical functionality. If there is relation to consumer safety requirements or standards, please state the legal reference.
3. Please state the **amount of lead and cadmium** used per application and in the homogeneous material. What is the amount of lead and cadmium put on the market in the EU annually in RoHS-relevant applications of printing inks for glass marking?
4. Please provide evidence on research efforts carried out with regard to **substitution of lead and cadmium** (e.g. test results or executive summaries). What alternatives have been found and what are their technical characteristics? When will substitution be possible?
5. Please quantify / technically **specify the drawbacks** caused concerning resistance to acids with regard to the use of alternatives.
6. Please provide evidence on **future activities towards substitution** such as a schematic roadmap or similar evidence.