

## **Questionnaire No. 4**

### **“Lead acetate marker for use in stereotactic headframes for use with CT and MRI and in positioning systems for gamma beam and particle therapy equipment”**

#### **Background**

The Öko-Institut together with Fraunhofer IZM has been appointed for the technical assistance in reviewing the requests for exemptions from the requirements of the RoHS Directive 2011/85/EU (RoHS II) by the European Commission. You have submitted the above mentioned request for exemption which has been subject to a first completeness and understandability check.

As a result we have identified that there is some information missing and a few questions to clarify before we can proceed with the online consultation on your request. Therefore we kindly ask you to reformulate your request taking the following points into consideration.

#### **Questions**

1. Could you please disclose your assumptions which you took into account for estimating the total amount of lead used in the EU used for lead acetate marker (less than 1 kg annually)? There are only two or three manufacturers of this type of headframe and the manufacturer with the largest market for this type of product uses only 1 liter of lead acetate solution per year. This solution we estimate contains about 1 kg of lead although the EU total may be slightly more.
2. What is the typical lifetime of head-frames and body-frames? Typically 10 years