This document analyzes the existence of possible hazardous materials in the LPARD system design. Hazardous materials should be avoided in the project design according to GPR004. If use of a certain hazardous materials is essential and there is no non-hazardous alternative, the use of hazardous materials must comply with the attached Lafayette College Chemical Hygiene Plan (LCCHP). Please refer to the LCCHP for the list of hazardous substances.

The LPARD system design does not require the use of and does not utilize any hazardous materials; therefore, a Material Data Safety Sheet is not required. After careful analysis of the Bill of Materials, all of the components used in the implementation of the design are RoHS compliant, do not contain any of the materials listed in the Lafayette College Chemical Hygiene Plan, and do not contain any warnings indicating the use of possible hazardous materials. As for this analysis, please refer to the manufacturability vendor matrix in the manufacturability analysis. This matrix contains each component used in our implementation as well as links to the vendors’ websites, which often contain all the specifications of their parts. Here we can see that the parts are RoHS compliant and each part has been checked against the list of hazardous materials. Furthermore, no batteries were used in the design so there is no concern with NiCd or Lead battery usage.