

**SUPPLEMENTARY TECHNICAL REQUIREMENT
HAZARDOUS MATERIAL MINIMIZATION IN ELECTRONIC/ELECTRICAL AND
COMERCIAL COMPONENTS AND MAINTENANCE EQUIPMENT**

1.0 SCOPE

This STR specifies hazardous material minimization requirements for the items to be delivered on this purchase order. The performance, function, reliability, maintainability, or life cycle cost requirements of the item shall not be compromised as a result of applying this STR.

2.0 DEFINITIONS

2.1 Commercial Component

A component which is available off-the-shelf for general industrial use.

2.2 Design Approval Activity

The activity responsible for approving the design of the component or maintenance equipment for which this STR is invoked. Where some aspects of the design are approved by one activity and other aspects are delegated to a lower ranking activity, the higher-ranking activity is the Design Approval Activity for purposes of this STR.

2.3 Hazardous Materials

For the purposes of complying with this STR, hazardous materials are the elements and compounds listed in Table I, with the following exceptions:

- Trace amounts of listed material present solely as an impurity (e.g., lead in stainless steel or rubber) are not considered hazardous.
- Except for brass or bronze with greater than one percent lead, metal alloys containing listed material are not considered hazardous.

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2.4 Readily Available Information

Information which is: (1) required by federal, state, or local laws and regulations to be supplied by the vendor to their customers, or (2) previously obtained by the vendor as a result of another customer's request, or (3) received by the vendor during normal conduct of business with their sub-tier supplier base or known by virtue of their routine interface with commercial industry, or (4) routinely provided to the vendor by their sub-tier suppliers, or (5) available as a result of tests performed by the vendor for other reasons.

3.0 REQUIREMENTS

- 3.1 Asterisked hazardous materials listed in Table I shall not be used in an item unless there is no suitable substitute which could be used due to compromise of performance, function, reliability, maintainability, or life cycle cost of the item. The vendor shall identify the location and amount of asterisked Table I hazardous materials to be used via letter or report. An evaluation of alternatives considered must also be provided. The vendor must provide justification to the Design Approval Activity for use of an asterisked hazardous material and obtain Design Approval Activity approval for its use.
- 3.2 The vendor shall identify to the procuring activity, via letter or report, whether any Table I non-asterisked hazardous materials are used and the applications of non-asterisked hazardous materials, if any. The content of this letter or report shall be based on readily available information. Neither procuring activity approval nor identification of specific locations/amounts of non-asterisked hazardous materials is required.

Table I. Hazardous Materials

Asbestos (friable and non-friable)

Barium

Brass and Bronze greater than 1 percent lead

Boron Trifluoride

Cadmium Metal

Chromium Metal and Compounds

Lead Metal and Compounds

Mercury Metal and Compounds⁽¹⁾

Ozone Depleting Substances (ODSs)

Class I (as defined in 40 CFR 82, Subpart A, Appendix A, except for those listed in 40 CFR 261 Subpart C)

Polychlorinated Biphenyls (PCBs)⁽¹⁾

Selenium Compounds

Silver Metal and Compounds

NOTES:

1. Minimized in Electronic/Electrical and Commercial Components and Maintenance Equipment. Design Approval Activity approval is required for use of these materials.

With the exception of brass and bronze with greater than one percent lead, metal alloys containing listed materials are not considered hazardous. Trace amounts of listed material present solely as an impurity are not considered hazardous.

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