

# UNIVERSITY OF KANSAS-LAWRENCE CAMPUS LABORATORY SAFETY MANUAL PART II – Chemical Hygiene/Safety Plan

## Section 1) Introduction to Chemical Hygiene/Safety

### 1.1) Elements of the KU Chemical Hygiene/Safety Plan (CHSP)

The KU Chemical Hygiene/Safety Plan consists of the following components:

1.1.1) The requirements, conditions, and procedures of the "University's Safety and Health Manual" apply to all university laboratory users/occupants/visitors and are, therefore, part of the Chemical Hygiene/Safety Plan. See the Kansas University (Lawrence) Safety Program.

1.1.2) The requirements, conditions and procedures of Part I of this Laboratory Safety Manual apply to all university laboratory users/occupants/visitors and are, therefore, part of the Chemical Hygiene/Safety Plan.

1.1.3) The requirements, conditions, and procedures of this part (Part II) apply to all university laboratory users/occupants/visitors in laboratories with chemicals. For Chemical Safety Levels III and IV (see Glossary) additional requirements, conditions, and procedures based upon the characteristics of the EHS Safety Authorization-Requiring Hazardous Chemicals will be specified in the Laboratory-Specific Safety Plan(s) required for the use of such materials. See section 3.9.3 of this part for chemicals specified as EHS Safety Authorization-Requiring Hazardous Chemicals.

1.1.4) This Part II in conjunction with the items specified in 1.1.1, 1.1.2, and 1.1.3, above, make up the University's Chemical Hygiene Plan as required under the OSHA Lab Standard (29 CFR 1910.1450). (See Part I: Chapter 1-Section 1.1.1 for further details.)

### 1.2) Chemical Considerations

Since exposure by hazardous chemicals may be by skin or eye contact, absorption through skin or mucous membranes, ingestion, injection by puncture, or inhalation, the safety procedures and engineered safeguards implemented in the lab must address protection against these modes of exposure. Because the same modes of exposure apply to biological and radioactive materials, the "universal" safety procedures and safeguards are covered in Part I of this Laboratory Safety Manual. When animals are used, the behavior of the animals, in addition to the vectors they may carry, must also be considered in establishing safety procedures and safeguards.

Note: If animals are used, the Biosafety Plan is automatically applicable and Authorized Users shall be trained in both components.

### **1.3) Organization of Part II**

1.3.1) Chemical Hygiene/Safety-specific operating procedures and/or emphasized universal safety operating procedures (Standard Operating Procedures) are addressed in Chapter 2.

1.3.2) Chemical Hygiene/Safety-specific aspects of hazard communication and control are addressed in Chapter 3.

1.3.3) How to obtain EHS Safety Authorizations for work at Chemical Hygiene/Safety Levels III and IV is described in Chapter 3.

1.3.4.) Chemical Hygiene/Safety-specific information and training requirements are outlined in Chapter 4.

1.3.5) Medical factors that need to be considered for Chemical Hygiene/Safety are listed in Chapter 5.

1.3.6) Specific procedures for the safe disposal of hazardous chemical waste are addressed in Chapter 6.

1.3.7) Chemical Hygiene/Safety-specific recordkeeping is addressed in Chapter 7.

1.3.8) Appendices for the various sections in this CHSP are provided in Chapter 8.