



UC San Diego

Policy & Procedure Manual

[Search](#) | [A-Z Index](#) | [Numerical Index](#) | [Classification Guide](#) | [What's New](#)

ENVIRONMENT, HEALTH & SAFETY

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CHEMICAL SAFETY - CARCINOGENS

I. REFERENCES

A. California Regulations

1. Title 8, California Code of Regulations, Division of Occupational Safety and Health, General Industry Safety Orders
2. Title 26, California Code of Regulations, Department of Health Services
3. California Building Code
4. Title 24 California Fire Code

B. Federal Guidelines

National Institute of Occupational Safety and Health (NIOSH)-Pocket Guide to Chemical Hazards

C. Professional Organization Guidelines

1. American Conference of Governmental Industrial Hygiene (ACGIH) Threshold Limit Values and Biological Exposure Indices
2. National Fire Protection Association (NFPA) 45

D. University of California Policies and Procedures

1. UC San Diego Policy Procedures Manual 516-5
2. UC San Diego Policy Procedures Manual 516-5.2
3. UC San Diego Policy Procedures Manual 516-26
4. UC San Diego Policy Procedures Manual 516-5.1

II. POLICY

Chemical carcinogen use and storage shall be conducted in such a manner as to reduce risks of personal exposure, property loss, and institutional liability to levels as low as reasonably achievable. Users must be knowledgeable of the individual hazards and particular requirements, if any, for each chemical they use and store. Training shall be conducted and well documented at all levels in the organization. Training shall include all required elements of the Hazard Communication Program, Laboratory Standard, and Standard Operating Procedures for the use of chemicals. See the UCSD Chemical Hygiene Plan and Safety Training, PPM 516-26, for specific training requirements. In no case may personnel exposure exceed the permissible exposure levels (PEL), the Threshold Limit Values (TLV), or other recognized safety standards. Prevention of skin and eye contact shall be avoided at all times. It is University policy to achieve the lowest practical concentrations below these limits and to minimize exposure by all routes of entry. When more than one exposure limit exists for a particular substance the more cautious value will be used as the UCSD exposure limit.

University of California San Diego Policy – PPM 516 – 5.1

PPM 516 – 5.1 Chemical Safety - Carcinogens

For the purposes of this policy, chemical carcinogens include:

- A. Select Carcinogen** – Any substance which meets one of the following criteria:
 - 1. It is regulated by Cal/OSHA as a carcinogen; or
 - 2. It is listed under the category, “known to be carcinogens,” in the 1985 ARC published by the NTP
 - 3. It is listed under Group 1 (“carcinogen to humans”) by the IARC
 - 4. It is listed in either Group 2A or 2B (IARC) or “reasonably anticipated” (NTP) AND causes statistically significant tumor incidence in animals.
- B. Regulated Carcinogen** – A recognized cancer causing substance, regulated by sections §1529 (asbestos), §1532 (cadmium), §1532.2 (cadmium VI), §1535 (MDA), §8358 (asbestos), §8359 (cadmium VI) or Article 110, §§5200-5220.
- C. Listed Carcinogen** – Chemical listed in §5209

III. RESPONSIBILITY

A. Chemical Safety and Surveillance Committee (CSSC)

The CSSC is advisory to the Chancellor through the Vice Chancellor – Resource Management and Planning on all matters relating to the safe use of hazardous chemicals. The primary charge to the committee is to reduce risks associated with hazardous chemicals and to establish policies and procedures that meet or exceed applicable norms, monitor new regulations, and implement adopted policies and procedures for hazardous chemicals. Risk shall be interpreted in the broadest possible sense including health, safety, economics, liability, regulatory compliance, efficient use of resources, public relations, environmental impact, etc.

Should there be a willful or negligent violation of UC San Diego's established chemical safety practices and procedures, the committee has the authority to impose disciplinary measures, which are subject to review and/or modification by the Chancellor or his/her designated representative. The committee's members should represent a diversity of disciplines relevant to the work being evaluated, developing technology, chemical health and safety, and engineering.

B. Environment, Health & Safety (EH&S)

Environment, Health & Safety (EH&S) is dedicated to the reduction to risks within the UC San Diego community, and to the promotion of safety as a value in our university culture. EH&S is pleased to provide health, safety and environmental services to everyone at UC San Diego. Their goal is to support the mission of the university by helping staff, faculty, and students take an active role in protecting their health and the environment.

EH&S shall be the reporting body to the state and local agencies related to use and reportable incidents involving chemicals. Should there be an imminent hazard, in the opinion of EH&S, of personal injury, serious exposure, or property damage, the EH&S Director or the Chemical Hygiene Officer has the authority to impose restrictive measures on the operations of concern including stop work authority. These restrictions are subject to review by the CSSC.

C. Principal Investigator/Supervisors

The Principal Investigator's primary responsibility is to ensure that good work practices, containment systems, and engineering controls are fully implemented when chemicals are used, stored, or handled in their facility. Each Principal Investigator or supervisor is responsible for the safety of facilities under his/her jurisdiction and operational procedures of personnel supervised. The supervisor or Principal Investigator will provide or secure consultation and/or training as necessary and will enforce personnel compliance with

University of California San Diego Policy – PPM 516 – 5.1 PPM 516 – 5.1 Chemical Safety - Carcinogens

established campus safety procedures and legal requirements. The supervisor or Principal Investigator is responsible for informing each person of the potential hazards they may be exposed to and complying with the provisions of all regulatory requirements or UC San Diego policies.

D. Individuals

Each individual is responsible for knowing and complying with safety guidelines, regulations, and procedures required for the task assigned, reporting unsafe conditions to the Principal Investigator, immediate supervisor, or EH&S; and reporting to the Principal Investigator or immediate supervisor all facts pertaining to every accident resulting in exposure to chemical agents. An individual shall not knowingly perform unsafe acts with hazardous chemicals.