

**1910.1450, Occupational Exposure to Hazardous Chemicals in Laboratories
(the laboratory standard)**

Standards were changed to align with the Hazard Communication Standard – 1910.1200

What was taken out?

- Definitions from paragraph (b):
 - Combustible liquid
 - Compressed gas
 - Explosive
 - Flammable
 - Flashpoint
 - Organic peroxide
 - Oxidizer
 - Unstable reactive
 - Water-reactive
- The above definitions are already present in the Hazard Communication Standard; OSHA wanted to maintain consistency in terms between the Hazard Communication Standard and this final standard since laboratories are subject to both regulations.

What was revised & added?

- Definitions revised in paragraph (b):
 - Hazardous chemical
 - Physical hazard
 - Reproductive toxins
- Definitions added in paragraph (b):
 - Health hazard
 - Mutagen
- OSHA wants to align this standard with the Hazard Communication Standard OSHA 29 CFR 1910.1200.

1910.1001 Asbestos

Standards were changed to align with the Hazard Communication Standard – 1910.1200

Revisions

- (h) (2) (iv) The employer shall ensure that containers of contaminated protective devices or work clothing, which are to be taken out of change rooms or the workplace for cleaning, maintenance or disposal, bear labels in accordance with paragraph (j){*Hazard Communication - Chemical manufacturers, importers, distributors and employers shall comply with all requirements of the Hazard Communication Standard*}. of this section.
- (h) (3) (vi) The employer shall ensure that contaminated clothing is transported in sealed impermeable bags, or other closed, impermeable containers, and labeled in accordance with paragraph (j){ *Hazard Communication - Chemical manufacturers, importers, distributors and employers shall comply with all requirements of the Hazard Communication Standard* } of this section.
 - Again, OSHA wants to maintain consistency in terms between the Hazard Communication Standard and this final standard.

Sign Specifications

- Regulated area where Respiratory Protection not required **prior to June 1, 2016:**
 - DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY
 - OR**
 - DANGER
ASBESTOS
CANCER AND LUNG DISEASE
HAZARD
AUTHORIZED PERSONNEL ONLY
- Regulated area where Respiratory Protection not required **on & after June 1, 2016**
 - DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY

1910.1001 Asbestos (cont.)

Standards were changed to align with the Hazard Communication Standard – 1910.1200

Sign Specifications (cont).

- Regulated area where Respirator is required **prior to June 1, 2016:**
 - DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY
WEAR RESPIRATORY PROTECTION AND
PROTECTIVE CLOTHING IN THIS AREA
OR
 - DANGER
ASBESTOS
CANCER AND LUNG DISEASE
HAZARD
AUTHORIZED PERSONNEL ONLY
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED IN THIS AREA
- Regulated area where Respirator is required **on & after June 1, 2016**
 - DANGER
ASBESTOS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
AUTHORIZED PERSONNEL ONLY
WEAR RESPIRATORY PROTECTION AND
PROTECTIVE CLOTHING IN THIS AREA

Warning Labels

- Labels **prior to June 1, 2015**
 - DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST
OR
 - DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD
- Labels **on & after June 1, 2015**
 - DANGER
CONTAINS ASBESTOS FIBERS
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS
DO NOT BREATHE DUST
AVOID CREATING DUST

1919.1025 Lead

Standards were changed to align with the Hazard Communication Standard – 1910.1200

Sign Specifications

- Signs when exposure to lead exceeds the PEL **prior to June 1, 2016**
 - DANGER
LEAD
MAY DAMAGE FERTILITY OR THE
UNBORN CHILD
CAUSES DAMAGE TO THE CENTRAL
NERVOUS SYSTEM
DO NO EAT, DRINK OR SMOKE IN THIS
AREA
 - OR**
 - WARNING
LEAD WORK AREA
POISON
NO SMOKING OR EATING
- Signs when exposure to lead exceeds the PEL **on & after June 1, 2016**
 - DANGER
LEAD
MAY DAMAGE FERTILITY OR THE
UNBORN CHILD
CAUSES DAMAGE TO THE CENTRAL
NERVOUS SYSTEM
DO NO EAT, DRINK OR SMOKE IN THIS
AREA
- (ii) The employer shall ensure that no statement appears on or near any sign required by this paragraph (m)(2) which contradicts or detracts from the meaning of the required sign.
- (iii) The employer shall ensure that signs required by this paragraph (m)(2) are illuminated and cleaned as necessary so that the legend is readily visible.
- (iv) The employer may use signs required by other statutes, regulations, or ordinances in addition to, or in combination with, signs required by this paragraph (m)(2).

1919.1025 Lead (cont.)

Standards were changed to align with the Hazard Communication Standard – 1910.1200

Warning Labels

- Labels **prior to June 1, 2015**
 - DANGER: CLOTHING AND EQUIPMENT CONTAMINATED WITH LEAD. MAY DAMAGE FERTILITY OR THE UNBORN CHILD. CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM. DO NOT EAT, DRINK OR SMOKE WHEN HANDLING. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS
 - OR**
 - CAUTION: CLOTHING CONTAMINATED WITH LEAD. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS.
- Labels **on & after June 1, 2015**
 - DANGER: CLOTHING AND EQUIPMENT CONTAMINATED WITH LEAD. MAY DAMAGE FERTILITY OR THE UNBORN CHILD. CAUSES DAMAGE TO THE CENTRAL NERVOUS SYSTEM. DO NOT EAT, DRINK OR SMOKE WHEN HANDLING. DO NOT REMOVE DUST BY BLOWING OR SHAKING. DISPOSE OF LEAD CONTAMINATED WASH WATER IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, OR FEDERAL REGULATIONS



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1910.1026 Chromium

Standards were changed to align with the Hazard Communication Standard – 1910.1200

- (h) (2) (iv) The employer shall ensure that bags or containers of contaminated protective clothing or equipment that are removed from change rooms for laundering, cleaning, maintenance, or disposal are labeled in accordance with the requirements of the Hazard Communication Standard, § 1910.1200.
- Chemical manufacturers, importers, distributors and employers shall comply with all requirements of the Hazard Communication Standard (HCS) (§ 1910.1200) for chromium (VI).

1910.1027 Cadmium

Standards were changed to align with the Hazard Communication Standard – 1910.1200

- *Waste, scrap, debris, bags, containers, personal protective equipment, and clothing contaminated with cadmium and consigned for disposal shall be collected and disposed of in sealed impermeable bags or other closed, impermeable containers. These bags and containers shall be labeled in accordance with paragraph (m) {Hazard Communication} of this section.*
- Chemical manufacturers, importers, distributors and employers shall comply with all requirements of the Hazard Communication Standard (HCS) (1910.1200) for cadmium.

Sign Specifications

- Signage in regulated areas **prior to June 1, 2016**
 - DANGER
CADMIUM
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS AND KIDNEYS
WEAR RESPIRATORY PROTECTION IN THIS AREA
AUTHORIZED PERSONNEL ONLY
 - OR**
 - DANGER
CADMIUM
CANCER HAZARD
CAN CAUSE LUNG AND KIDNEY DISEASE
AUTHORIZED PERSONNEL ONLY
REPIRATORS REQUIRED IN THIS AREA
- Signage in regulated areas **on & after June 1, 2016**
 - DANGER
CADMIUM
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS AND KIDNEYS
WEAR RESPIRATORY PROTECTION IN THIS AREA
AUTHORIZED PERSONNEL ONLY

1910.1027 Cadmium (cont.)

Standards were changed to align with the Hazard Communication Standard – 1910.1200

Warning Labels

- Labels for shipping & storage containers in regulated areas **prior to June 1, 2015**
 - DANGER
CONTAINS CADMIUM
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS AND KIDNEYS
AVOID CREATING DUST
 - OR**
 - DANGER
CONTAINS CADMIUM
CANCER HAZARD
AVOID CREATING DUST
CAN CAUSE LUNG AND KIDNEY DISEASE

- Labels for shipping & storage containers in regulated areas **on & after June 1, 2015**
 - DANGER
CONTAINS CADMIUM
MAY CAUSE CANCER
CAUSES DAMAGE TO LUNGS AND KIDNEYS
AVOID CREATING DUST

1910.1028 Benzene

Standards were changed to align with the Hazard Communication Standard – 1910.1200

Sign Specifications

- Warning Signs posted at entrances to regulated areas **prior to June 1, 2016**
 - DANGER
BENZENE
MAY CAUSE CANCER
HIGHLY FLAMMABLE LIQUID AND VAPOR
DO NOT SMOKE
WEAR REPIRATORY PROTECTION IN THIS AREA
AUTHORIZED PERSONNEL ONLY

OR

 - DANGER
BENZNE
CANCER HAZARD
FLAMMABLE – NO SMOKING
AUTHORIZED PERSONNEL ONLY
RESPIRATOR REQUIRED

Warning Labels

- Warning labels for containers of benzene within the workplace **prior to June 1, 2015**
 - DANGER
CONTAINS BENZENE
CANCER HAZARD
- Warning labels for containers of benzene within the workplace **on & after June 1, 2015**
 - Labels will comply with the requirements under OSHA Hazard Communication 2012 29 CFR 1910.1200 (f).

1910.1029 Coke Oven Emissions

Standards were changed to align with the Hazard Communication Standard – 1910.1200

Sign Specifications

- Signs posted in regulated areas **prior to June 1, 2016**
 - DANGER
COKE OVEN EMISSIONS
MAY CAUSE CANCER
DO NOT EAT, DRINK OR SMOKE
WEAR RESPIRATORY PROTECTION IN THIS AREA
AUTHORIZED PERSONNEL ONLY

OR

 - DANGER
CANCER HAZARD
AUTHORIZED PERSONNEL ONLY
NO SMOKING OR EATING
- Signs posted in regulated areas **on & after June 1, 2016**
 - DANGER
COKE OVEN EMISSIONS
MAY CAUSE CANCER
DO NOT EAT, DRINK OR SMOKE
WEAR RESPIRATORY PROTECTION IN THIS AREA
AUTHORIZED PERSONNEL ONLY
- In addition, the employer shall post signs in areas where the PEL is exceeded prior to **June 1, 2016**
 - WEAR RESPIRATORY PROTECTION IN THIS AREA

OR

 - DANGER
RESPIRATOR REQUIRED
- Signs posted in areas where the PEL is exceeded **on or after June 1, 2016**
 - WEAR RESPIRATORY PROTECTION IN THIS AREA
- Employer shall ensure that no statement appears on or near any sign required by the Hazard Communication Standard 29 CFR 1910.1200 which contradicts or detracts from the effects of the required sign.
- Employer shall ensure that signs required by Hazard Communication Standard 29 CFR 1910.1200 are illuminated and cleaned as necessary so that the legend is readily visible.



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1910.1029 Coke Oven Emissions (cont.)

Standards were changed to align with the Hazard Communication Standard – 1910.1200

Warning Labels

- Labels on containers **prior to June 1, 2015**
 - CONTAMINATED WITH COKE EMISSIONS
MAY CAUSE CANCER
DO NOT REMOVE DUST BY BLOWING OR SHAKING

 - OR**

 - CAUTION
CLOTHING CONTAMINATED WITH COKE EMISSIONS
DO NOT REMOVE DUST BY BLOWING OR SHAKING

- Labels on containers **on & after June 1, 2015**
 - CONTAMINATED WITH COKE EMISSIONS
MAY CAUSE CANCER
DO NOT REMOVE DUST BY BLOWING OR SHAKING