

**STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

PROPOSED STATE STANDARD,
TITLE 8, CHAPTER 4

Amend Section 5214 to read:

§ 5214. Inorganic Arsenic.

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(h) Respiratory Protection.

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(3) Respirator Selection.

(A) The employer shall select the appropriate respirator or combination of respirators from the following table.

RESPIRATORY PROTECTION FOR INORGANIC ARSENIC

CONCENTRATION OF AIRBORNE INORGANIC ARSENIC	RESPIRATOR TYPE
1. Not greater than 0.1 milligrams (of compounds with no significant vapor pressure) per cubic meter	<u>1A.</u> Air-purifying, with high efficiency particulate filter* and half-mask; <u>1B.</u> Any supplied-air respirator with half-mask.
2. Not greater than 0.1 milligrams of arsenic trichloride (and all compounds with significant vapor pressure) per cubic meter	<u>2A.</u> See respirator type required under 5.
3. Not greater than 0.25 milligrams (of compounds with no significant vapor pressure) per cubic meter	<u>3A.</u> Powered air-purifying, with high efficiency particulate filter* and hood or helmet.
4. Not greater than 0.5 milligrams (of compounds with no significant vapor pressure) per cubic meter	<u>4A.</u> Air-purifying, with high efficiency particulate filter* and half mask <u>full facepiece</u> ; <u>4B.</u> Any supplied-air respirator with full facepiece; <u>4C.</u> Any self-contained breathing apparatus with full facepiece.
5. Not greater than 0.5 milligrams of arsenic trichloride (and <u>all</u> compounds with significant vapor pressure) per cubic meter	<u>5A.</u> Gas mask, front or back mounted, equipped with high efficiency filter*, acid gas canister, and full facepiece; <u>5B.</u> Any supplied-air respirator with full

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	facepiece; <u>5C.</u> Any self-contained breathing apparatus with full facepiece.
6. Not greater than 1 milligram (of compounds with no significant vapor pressure) per cubic meter	<u>6A.</u> Powered air-purifying, with high efficiency particulate filter* and full facepiece; <u>6B.</u> Supplied-air, operated in positive pressure mode, with half mask.
7. Not greater than 10 <u>5</u> milligrams (of compounds with no significant vapor pressure) per cubic meter	See respirator type required under 9 <u>8</u> ; <u>7A.</u> Supplied-air, operated in positive pressure mode, with full facepiece, hood, helmet or suit.
8. Not greater than 10 <u>5</u> milligrams of arsenic trichloride (and all compounds with significant vapor pressure) per cubic meter 9. Not greater than 20 milligrams per cubic meter	<u>8A.</u> Self-contained breathing apparatus with full facepiece operated in pressure-demand mode; <u>8B.</u> Combination breathing apparatus: supplied-air, positive pressure full facepiece respirator with auxiliary self-contained compressed air supply.
10. <u>9.</u> Firefighting or any unknown, or known concentration greater than 20 <u>5</u> milligrams per cubic meter.	<u>9A.</u> Any full facepiece <u>pressure-demand</u> self-contained breathing apparatus operated in positive pressure mode <u>certified by NIOSH for a minimum service life of thirty minutes.</u>

* High efficiency filter — 99.97 percent efficiency against 0.3 micrometer monodisperse di(2-ethylhexyl) phthalate (DOP) particles.

NOTE: Any respirator approved for use at a particular concentration may be used at any lower concentration.

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(i) Protective Clothing and Equipment.

(1) Provision and Use. Where the possibility of skin or eye irritation from inorganic arsenic exists and for all workers working in regulated areas, the employer shall provide at no cost to the employee, and require that employees use appropriate and clean protective work clothing and equipment such as, but not limited to:

- (A) Coveralls or similar full-body work clothing;
- (B) Gloves, and shoes or shoe coverlets;

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- (C) ~~Face shields or vented goggles~~ Eye protection, when necessary to prevent eye irritation, which complies with the requirements of Article 10; and
(D) Impervious clothing for employees subject to exposure to arsenic trichloride.

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- (j) Housekeeping.

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(5) A written housekeeping and maintenance plan shall be kept which shall list appropriate frequencies for carrying out housekeeping operations, and for cleaning and maintaining ventilation and dust collection equipment. The plan shall be available for inspection by authorized representatives of the Chief.

(6) Periodic cleaning of dust collection and ventilation equipment and checks of their effectiveness shall be carried out to maintain the effectiveness of the system ~~and a notation kept of the last check of effectiveness and cleaning or maintenance~~. Design, construction, operation, maintenance, testing, and record keeping for ventilation and dust collection systems shall comply with section 5143.

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NOTE: Authority cited: Sections 142.3, 9020, 9030 and 9040, Labor Code. Reference: Sections 142.3, 9004(d), 9009, 9020, 9030, 9031 and 9040, Labor Code.

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Amend Appendix A to Section 5214 to read:

Appendix A
Inorganic Arsenic Substance Information Sheet

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III. PROTECTIVE CLOTHING AND EQUIPMENT

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B. Protective clothing. If you work in a regulated area, your employer is required to provide at no cost to you, and you must wear, appropriate, clean, protective clothing and equipment. The purpose of this equipment is to prevent you from bringing to your home arsenic-contaminated dust and to protect your body from repeated skin contact with inorganic arsenic likely to cause skin irritation. This clothing should include such items as coveralls or similar full-body clothing, gloves, shoes or coverlets, and aprons. ~~Protective equipment should include face shields or vented goggles where eye injury may occur.~~ Eye protection, such as indirectly vented goggles, may be required to prevent eye injuries.