

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

PROPOSED STATE STANDARD,
TITLE 8, CHAPTER 4

Amend Section 5155 to read:

§5155. Airborne Contaminants.

(a) Scope and Application.

(1) This section establishes requirements for controlling employee exposure to airborne contaminants and skin contact with those substances which are readily absorbed through the skin and are designated by the "S" notation in Table AC-1 at all places of employment in the state.

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Table AC-1

PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS

| Chemical Abstracts Registry Number ^(a) | Skin ^(b) | Name ^(c) | PEL ^(d) | | Ceiling ^(g) | STEL ^(o) | |
|--|---------------------|---|---------------------------|--------------------------------|------------------------|---------------------|----------------------|
| | | | ppm ^(e) | mg/M ^{3(f)} | | ppm ^(e) | mg/M ^{3(f)} |
| * * * * * | | | | | | | |
| 106923 | S | Allyl glycidyl ether; AGE | 5 <u>0.2</u> | 22 <u>0.93</u> | | 40 | 44 |
| * * * * * | | | | | | | |
| 74839 | | Bromomethane, see Methyl Bromide | | | | | |
| <u>106945</u> | <u>S</u> | <u>1-bromopropane, n-propyl bromide</u> | <u>5</u> | <u>25</u> | | | |
| * * * * * | | | | | | | |
| | | Coal (Bituminous) dust <5% quartz, respirable fraction ⁽ⁿ⁾ | — | 2 <u>0.9</u> | | | |
| * * * * * | | | | | | | |
| 121824 | S | Cyclonite; RDX; cyclotrimethylenetrinitramine | — | 4.5 <u>0.07</u> | | | |
| * * * * * | | | | | | | |
| 123911 | S | p-Dioxane, tech. grade; 1,4-dioxacyclohexane; 1,4-diethylene dioxide | 25 <u>0.28</u> | 90 <u>1.0</u> | | | |
| * * * * * | | | | | | | |
| 109864 | | Glycol monoethyl ether; see 2-Methoxyethanol | | | | | |
| <u>107222</u> | | <u>Glyoxal, 1,2-ethanedione</u> | — | <u>0.1</u> ^{(s), (u)} | | | |
| * * * * * | | | | | | | |
| 591786 | S | Methyl <u>n</u> -butyl ketone; 2-hexanone | 5 <u>1</u> | 20 <u>4</u> | | <u>10</u> | <u>40</u> |

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|-----------------|----------|------------------------------------|-------------------------|-------------------------------|----------|-------------------------------|
| | | * * * * * | | | | |
| 1634044 | | Methyl tert-butyl ether; MTBE | 40 | 144 | | |
| <u>78944</u> | <u>S</u> | <u>Methyl vinyl ketone</u> | <u>0.05</u> | <u>0.14</u> | <u>C</u> | |
| | | | * * * * * | | | |
| 7440020 | | Nickel metal, as Ni | — | 4 <u>0.5</u> | | |
| | | Nickel, insoluble compounds, as Ni | — | 4 <u>0.1</u> | | |
| | | Nickel, soluble compounds, as Ni | — | 0.4 <u>0.05</u> | | |
| <u>12035722</u> | | <u>Nickel subsulfide</u> | — | <u>.05</u> | | |
| | | | * * * * * | | | |
| 10028156 | | Ozone | 0.1 ^(p) | 0.2 ^(p) | <u>C</u> | 0.3 0.6 |
| | | | * * * * * | | | |
| 121824 | | RDX; see Cyclonite | | | | |
| | | <u>Refractory ceramic fiber</u> | | <u>0.2 f/cc^(q)</u> | | |
| | | | * * * * * | | | |
| 593602 | | Vinyl bromide; bromoethylene | 5 <u>0.1</u> | 20 <u>0.44</u> | | |
| | | | * * * * * | | | |
| 106876 | S | Vinyl cyclohexene dioxide | 0.1 | 0.57 | | |
| <u>75025</u> | | <u>Vinyl fluoride</u> | <u>0.2</u> | <u>0.38</u> | | |

Footnotes to Table AC-1

* * * * *

(n) The concentration and percentage of the particulate used for this limit are determined from the fraction passing a size selector with the following characteristics:

| Aerodynamic Diameter in Micrometers (unit density sphere) | Percent Passing Selector |
|---|-----------------------------|
| <u>0</u> | <u>100</u> |
| <u>1</u> | <u>97</u> |
| 2 <u>2</u> (strike the existing ≤ sign) | 90 <u>91</u> |
| 3 <u>3</u> | 75 <u>74</u> |
| 4 <u>4</u> | 50 |
| 5 <u>5</u> | 25 <u>30</u> |
| <u>6</u> | <u>17</u> |
| <u>7</u> | <u>9</u> |
| <u>8</u> | <u>5</u> |
| <u>10</u> | <u>0 1</u> |

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(p) ~~(Reserved)~~ The ozone Ceiling Limit applies to the concentration of ozone to which an employee is exposed, less the concentration of ozone measured in the ambient air away from any workplace sources of ozone.

(q) Fibers per cubic centimeter of air at 25°C and 760mm Hg pressure. To be considered a fiber for this limit, the ~~glass~~ particle must be longer than 5µm, have a length to diameter ratio of three or more, and have a diameter less than 3µm. The National Institute for Occupational Safety and Health (NIOSH), Method 7400, Issue 2, August 15, 1994, which is hereby incorporated by reference, shall be used for measuring airborne fiber concentrations.

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(s) The concentration and percentage of the particulate used for this limit are determined from the fraction passing a size selector with the following characteristics:

| Aerodynamic Diameter in Micrometers | Percent Passing Selector |
|-------------------------------------|--------------------------|
| (unit density sphere) | |
| 0..... | 100 |
| 1..... | 97 |
| 2..... | 94 |
| 5..... | 87 |
| 10..... | 77 |
| 20..... | 65 |
| 30..... | 58 |
| 40..... | 54.5 |
| 50..... | 52.2 |
| 100..... | 50 |

* * * * *

(u) This PEL applies to the sum of the exposures to the substance in the vapor state and from the particulate fraction specified in footnote (s) in this table.

NOTE: Authority cited: Section 142.3, Labor Code. Reference: Sections 142.3 and 144.6, Labor Code.