Occupational Safety and Health Admin., Labor § 1910.1003


5.44. The Microscope, No 57, Chicago, 1989.


§ 1910.1003 13 Carcinogens (4-Nitrophenol, etc.).

(a) Scope and application. (1) This section applies to any area in which the 13 carcinogens addressed by this section are manufactured, processed, repackaged, released, handled, or stored, but shall not apply to transshipment in sealed containers, except for the labeling requirements under paragraphs (e)(2), (3) and (4) of this section. The 13 carcinogens are the following:

- 4-Nitrophenol, Chemical Abstracts Service Registry Number (CAS No.) 92833;
- alpha-Naphthylamine, CAS No. 133327;
- methyl chloromethyl ether, CAS No. 107302;
- 3',4'-Dichlorobenzidine (and its salts) CAS No. 91941;
- bis-Chloromethyl ether, CAS No. 542881;
- beta-Naphthylamine, CAS No. 91598;
- Benzidine, CAS No. 92975;
- 4-Aminodiphenyl, CAS No. 92671;
- Ethyleneimine, CAS No. 151554;
- beta-Propiolactone, CAS No. 57578;
- 2-Acetylaminofluorene, CAS No. 59863;
- 4-Dimethylaminoazo-benezene, CAS No. 60117; and
- N-Nitrosodimethylamine, CAS No. 62759.

(2) This section shall not apply to the following:

- Solid or liquid mixtures containing less than 0.1 percent by weight or volume of 4-Nitrophenol; methyl chloromethyl ether; bis-chloromethyl ether; beta-Naphthylamine; benzidine or 4-Aminodiphenyl; and
- Solid or liquid mixtures containing less than 1.0 percent by weight or volume of alpha-Naphthylamine; 3',4'-Dichlorobenzidine (and its salts); Ethyleneimine; beta-Propiolactone; 2-Acetylaminofluorene; 4-Dimethylaminoazo-benezene, or N-Nitrosodimethylamine.

(b) Definitions. For the purposes of this section:

Absolute filter is one capable of retaining 99.97 percent of a mono disperse aerosol of 0.3 μm particles.

Authorized employee means an employee whose duties require him to be...