BIOHAZARDOUS LABELS AND SIGNS

Warning labels are required to be affixed to containers or areas where blood or other potentially infectious materials are found. Acceptable labels include the Biohazard labels as shown below, or red bags if employees have been instructed in the meaning of the red color-coding.

Warning labels are to be affixed to the following:

1. Containers of regulated waste.

2. Refrigerators and freezers containing blood or other potentially infectious materials.

3. Containers used to store, transport or ship blood or other potentially infectious materials.

4. Contaminated equipment.

*5.* Specimens of blood or other potentially infectious materials that are to leave the facility for testing.

29 CFR 1910.145(a-d)(e-f)(Appendix A-B):

(a)Scope.

(1) These specifications apply to the design, [application](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=b7fe5380835f3c4133f7e178dd153f44&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145), and [use](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) of [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) or symbols (as included in paragraphs (c) through (e) of this section) intended to indicate and, insofar as possible, to define specific hazards of a nature such that failure to designate them may [lead](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77d4a0cb2a1fdd1fd08f5044c82cb7ae&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) to accidental injury to workers or the public, or both, or to property damage. These specifications are intended to cover all safety [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=3&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) except those designed for streets, highways, and railroads. These specifications do not apply to plant bulletin boards or to safety posters.

(2) All new [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=4&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) and replacements of old [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=5&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be in accordance with these specifications.

(b)Definitions. As [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) in [this section](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=3308a07056fec8f3119f0cac506761e4&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145), the word sign refers to a surface on prepared for the warning of, or safety instructions of, industrial workers or members of the public who may be exposed to hazards. Excluded from this definition, however, are news releases, displays commonly known as safety posters, and bulletins [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=3&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) for [employee](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) education.

(c)Classification of signs according to use -

(1)Danger signs.

(i) There shall be no variation in the type of design of [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=6&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) posted to warn of specific dangers and radiation hazards.

(ii) All [employees](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be instructed that danger [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=7&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) indicate immediate danger and that special precautions are necessary.

(2)Caution signs.

(i) Caution [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=8&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=4&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) only to warn against potential hazards or to caution against unsafe practices.

(ii) All [employees](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=3&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be instructed that caution [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=9&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) indicate a possible hazard against which proper precaution should be taken.

(3)Safety instruction signs. Safety instruction [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=10&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=5&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) where there is a need for general instructions and suggestions relative to safety measures.

(d)Sign design -

(1)Design features. All [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=11&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be furnished with rounded or blunt corners and shall be free from sharp edges, burrs, splinters, or other sharp projections. The ends or heads of bolts or other fastening devices shall be located in such a way that they do not constitute a hazard.

(2)Danger signs. The colors red, black, and white shall be those of opaque glossy samples as specified in Table 1, “Fundamental Specification of Safety Colors for CIE [Standard](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e3683342080c4e7fe53b28f419b4531b&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) Source ‘C,’ ” of ANSI Z53.1-1967 or in Table 1, “Specification of the Safety Colors for CIE Illuminate C and the CIE 1931, 2 [Standard](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e3683342080c4e7fe53b28f419b4531b&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) Observer,” of ANSI Z535.1-2006(R2011), incorporated by reference in [§ 1910.6](https://www.law.cornell.edu/cfr/text/29/1910.6).

(3) [Reserved]

(4)Caution signs. The [standard](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e3683342080c4e7fe53b28f419b4531b&term_occur=3&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) color of the background shall be yellow; and the panel, black with yellow letters. Any letters [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=6&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) against the yellow background shall be black. The colors shall be those of opaque glossy samples as specified in Table 1 of ANSI Z53.1-1967 or Table 1 of ANSI Z535.1-2006(R2011), incorporated by reference in [§ 1910.6](https://www.law.cornell.edu/cfr/text/29/1910.6).

(5) [Reserved]

(6)Safety instruction signs. The [standard](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e3683342080c4e7fe53b28f419b4531b&term_occur=4&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) color of the background shall be white; and the panel, green with white letters. Any letters [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=7&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) against the white background shall be black. The colors shall be those of opaque glossy samples as specified in Table 1 of ANSI Z53.1-1967 or in Table 1 of ANSI Z535.1-2006(R2011), incorporated by reference in [§ 1910.6](https://www.law.cornell.edu/cfr/text/29/1910.6).

(e)Sign wordings.

(1) [Reserved]

(2)Nature of wording. The wording of any sign should be easily read and concise. The sign should contain sufficient information to be easily understood. The wording should make a positive, rather than negative suggestion and should be accurate in fact.

(3) [Reserved]

(4)Biological hazard signs. The biological hazard warning shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=10&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) to signify the actual or potential presence of a biohazard and to identify equipment, containers, rooms, materials, experimental animals, or combinations thereof, which contain, or are [contaminated](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=74e98b26147b978c5e5e598e62473e33&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) with, viable hazardous agents. For the purpose of this subparagraph the term “biological hazard,” or “biohazard,” shall include only those infectious agents presenting a risk or potential risk to the [well](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=68298e9f9dbf99e0f2ab8c1eee7238fc&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145)-being of man.

(f)Accident prevention tags -

(1)Scope and application.

(i) This paragraph (f) applies to all accident prevention [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145)[used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=11&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) to identify hazardous conditions and provide a message to [employees](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=4&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) with respect to hazardous conditions as set forth in [paragraph (f)(3)](https://www.law.cornell.edu/cfr/text/29/1910.145#f_3) of [this section](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=3308a07056fec8f3119f0cac506761e4&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145), or to meet the specific [tagging](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) requirements of other OSHA standards.

(ii) This paragraph (f) does not apply to construction or agriculture.

(2)Definitions. Biological hazard or BIOHAZARD means those infectious agents presenting a risk of death, injury or illness to employees.

Major message means that portion of a [tag](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=3&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145)'s inscription that is more specific than the [signal word](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=892cabc01ac958d1bdb221844f014cec&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) and that indicates the specific hazardous condition or the instruction to be communicated to the [employee](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=5&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145). Examples include: “High Voltage,” “Close Clearance,” “Do Not Start,” or “Do Not Use” or a corresponding [pictograph](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4343764683e5e6755db3e7117e6cd3a3&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145)[used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=12&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) with a written text or alone.

Pictograph means a pictorial representation [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=13&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) to identify a hazardous condition or to convey a safety instruction.

Signal word means that portion of a [tag](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=4&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145)'s inscription that contains the word or words that are intended to capture the [employee](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=6&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145)'s immediate attention.

Tag means a device usually made of card, paper, pasteboard, plastic or other material [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=14&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) to identify a hazardous condition.

(3)Use.[Tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=5&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=15&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) as a means to prevent accidental injury or illness to [employees](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=7&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) who are exposed to hazardous or potentially hazardous conditions, equipment or operations which are out of the ordinary, unexpected or not readily apparent. [Tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=6&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=16&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) until such time as the identified hazard is eliminated or the hazardous operation is completed. [Tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=7&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) need not be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=17&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) where [signs](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=52b36b8219bbaadaaa93c57c91bb4cb4&term_occur=12&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145), guarding or other positive means of protection are being used.

(4)General tag criteria. All required [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=8&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall meet the following criteria:

(i)[Tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=9&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall contain a [signal word](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=892cabc01ac958d1bdb221844f014cec&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) and a [major message](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e1db47a88eb55e75b3356c81bf5d96fb&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145).

(A) The [signal word](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=892cabc01ac958d1bdb221844f014cec&term_occur=3&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be either “Danger,” “Caution,” or “Biological Hazard,” “BIOHAZARD,” or the biological hazard symbol.

(B) The [major message](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e1db47a88eb55e75b3356c81bf5d96fb&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall indicate the specific hazardous condition or the instruction to be communicated to the [employee](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=8&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145).

(ii) The [signal word](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=892cabc01ac958d1bdb221844f014cec&term_occur=4&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be readable at a minimum distance of five feet (1.52 m) or such greater distance as warranted by the hazard.

(iii) The [tag](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=10&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145)'s [major message](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e1db47a88eb55e75b3356c81bf5d96fb&term_occur=3&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be presented in either pictographs, written text or both.

(iv) The [signal word](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=892cabc01ac958d1bdb221844f014cec&term_occur=5&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) and the [major message](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e1db47a88eb55e75b3356c81bf5d96fb&term_occur=4&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be understandable to all [employees](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=9&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) who may be exposed to the identified hazard.

(v) All [employees](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=10&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be informed as to the meaning of the various [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=11&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145)[used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=18&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) throughout the [workplace](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=902c97bcec759c4f313bfa1e42365ea8&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) and what special precautions are necessary.

(vi)[Tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=12&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be affixed as close as safely possible to their respective hazards by a positive means such as string, wire, or adhesive that prevents their loss or unintentional removal.

(5)Danger tags. Danger [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=13&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=19&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) in major hazard situations where an immediate hazard presents a threat of death or serious injury to employees. Danger [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=14&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=20&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) only in these situations.

(6)Caution tags. Caution [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=15&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=21&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) in minor hazard situations where a non-immediate or potential hazard or unsafe practice presents a lesser threat of [employee](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=77092eaa2157c9a6efb188d7b2913456&term_occur=11&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) injury. Caution [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=16&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=22&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) only in these situations.

(7)Warning tags. Warning [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=18&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) may be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=23&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) to represent a hazard level between “Caution” and “Danger,” instead of the required “Caution” [tag](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=17&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145), provided that they have a [signal word](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=892cabc01ac958d1bdb221844f014cec&term_occur=6&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) of “Warning,” an appropriate [major message](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e1db47a88eb55e75b3356c81bf5d96fb&term_occur=5&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145), and otherwise meet the general [tag](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=19&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) criteria of [paragraph (f)(4)](https://www.law.cornell.edu/cfr/text/29/1910.145#f_4) of [this section](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=3308a07056fec8f3119f0cac506761e4&term_occur=3&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145).

(8)Biological hazard tags.

(i)[Biological hazard tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=a50c78ade31e644f6cdb3c1c36789f4f&term_occur=1&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=24&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) to identify the actual or potential presence of a biological hazard and to identify equipment, containers, rooms, experimental animals, or combinations thereof, that contain or are [contaminated](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=74e98b26147b978c5e5e598e62473e33&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) with hazardous biological agents.

(ii) The symbol design for [biological hazard tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=a50c78ade31e644f6cdb3c1c36789f4f&term_occur=2&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) shall conform to the design shown below:

(9)Other tags. Other [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=20&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) may be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=25&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) in addition to those required by this paragraph (f), or in other situations where this paragraph (f) does not require [tags](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=21&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145), provided that they do not detract from the impact or visibility of the [signal word](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=892cabc01ac958d1bdb221844f014cec&term_occur=7&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) and [major message](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e1db47a88eb55e75b3356c81bf5d96fb&term_occur=6&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) of any required [tag](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=9b6426384ff30f75a05e28367bf566cc&term_occur=22&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145).

**Appendix A to** [**§ 1910.145**](https://www.law.cornell.edu/cfr/text/29/1910.145)**(f) - Recommended Color Coding**

While the [standard](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e3683342080c4e7fe53b28f419b4531b&term_occur=5&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) does not specifically mandate colors to be [used](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=4c3f5634ff7e1b4aed27a5e0b2b8ef92&term_occur=26&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) on accident prevention tags, the following color scheme is recommended by OSHA for meeting the requirements of this section:

“DANGER” - Red, or predominantly red, with lettering or symbols in a contrasting color.

“CAUTION” - Yellow, or predominantly yellow, with lettering or symbols in a contrasting color.

“WARNING” - Orange, or predominantly orange, with lettering or symbols in a contrasting color.

“BIOLOGICAL HAZARD” - Fluorescent orange or orange-red, or predominantly so, with lettering or symbols in a contrasting color.

**Appendix B to** [**§ 1910.145**](https://www.law.cornell.edu/cfr/text/29/1910.145)**(f) - References for Further Information**

The following references provide information which can be helpful in understanding the requirements contained in various sections of the standard:

1. Bresnahan, Thomas F., and Bryk, Joseph, “The Hazard Association Values of Accident Prevention Signs”, *Journal of American Society of Safety Engineers;* January 1975.

2. Dreyfuss, H., *Symbol Sourcebook,* McGraw Hill; New York, NY, 1972.

3. Glass, R.A. and others, *Some Criteria for Colors and Signs in Workplaces,* National Bureau of Standards, Washington DC, 1983.

4. *Graphic Symbols for Public Areas and Occupational Environments,* Treasury Board of Canada, Ottawa, Canada, July 1980.

5. Howett, G.L., *Size of Letters Required for Visibility as a Function of Viewing Distance and Observer Acuity,* National Bureau of Standards, Washington DC, July 1983.

6. Lerner, N.D. and Collins, B.L., *The Assessment of Safety Symbol Understandability by Different Testing Methods,* National Bureau of Standards, Washington DC, 1980.

7. Lerner, N.D. and Collins, B.L., *Workplace Safety Symbols,* National Bureau of Standards, Washington DC, 1980.

8. Modley, R. and Meyers, W.R., *Handbook of Pictorial Symbols,* Dover Publication, New York, NY, 1976.

9. *Product Safety Signs and Labels,* FMC Corporation, Santa Clara, CA, 1978.

10. *Safety Color Coding for Marking Physical Hazards,* Z53.1, American National [Standards](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e3683342080c4e7fe53b28f419b4531b&term_occur=6&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) Institute, New York, NY, 1979.

11. *Signs and Symbols for the Occupational Environment, Can. 3-Z-321-77,* Canadian [Standards](https://www.law.cornell.edu/definitions/index.php?width=840&height=800&iframe=true&def_id=e3683342080c4e7fe53b28f419b4531b&term_occur=7&term_src=Title:29:Subtitle:B:Chapter:XVII:Part:1910:Subpart:J:1910.145) Association, Ottawa, September 1977.

12. *Symbols for Industrial Safety,* National Bureau of Standards, Washington DC, April 1982.

13. *Symbol Signs,* U.S. Department of Transportation, Washington DC, November 1974.

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