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General requirements for ordinary objects surface disinfectant

普通物体表面消毒剂通用要求

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General requirements for ordinary objects surface disinfectant

1 Scope

This standard specifies the raw material requirements, technical requirements, inspection methods, methods of use, identification of disinfectant materials used for surface disinfection of ordinary objects.

This standard applies to all types of disinfectants for the disinfection of surfaces of ordinary objects.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB 190 Packing symbol of dangerous goods

GB/T 191 Packaging - Pictorial marking for handling of goods

GB/T 26366 Hygienic standard for chlorine dioxide disinfectant

GB/T 26367 Hygienic standard for biguanides disinfectants

GB/T 26369 Hygienic standard for quaternary ammonium disinfectant

GB/T 26370 Hygienic standard for disinfectants with bromine

GB/T 26371 Hygienic standard for peroxide disinfectants

GB/T 26373 Hygienic standard for alcohol disinfectants

GB/T 27947 Hygienic standard for phenolic disinfectants

Technical specification for disinfection (2002 edition) [Ministry of Health (WJDF [2002] No.282)]

Hygienic quality technical specifications for sodium hypochlorite disinfectants [Ministry of Health (WJDF [2007] No.265)]

Hygienic specification for disinfection products manufacturers (2009 edition)
[Ministry of Health (WJDF [2009] No.53)]

Hygienic quality technical specifications for bleaching powder and bleaching
powder disinfectants (for trial) [Ministry of Health (WBJDF [2010] No.204)]

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Ordinary object surface

Surfaces of articles, utensils, equipment and facilities in various places such as schools, childcare institutions, medical and health institutions, public places, families, etc., as well as walls and floors.

3.2

Ordinary objects surface disinfectant

A preparation used to kill microorganisms contaminated on the surface of ordinary objects and achieve disinfection effect.

4 Requirements for raw material

4.1 Chlorine-containing disinfectants: The sodium hypochlorite shall comply with the requirements of "Hygienic quality technical specifications of sodium hypochlorite disinfectants"; calcium hypochlorite shall meet the requirements of "Hygienic quality technical specifications of bleaching powder and bleaching powder disinfectants (trial)"; other chlorine-containing disinfectants shall comply with relevant national and industry standards.

4.2 Bromine-containing disinfectant: It shall meet the requirements of GB/T 26370.

4.3 Peroxide disinfectant: It shall meet the requirements of GB/T 26371.

4.4 Chlorine dioxide disinfectant: It shall meet the requirements of GB/T 26366.

4.5 Alcohol disinfectant: It shall meet the requirements of GB/T 26373.

4.6 Phenolic disinfectant: It shall meet the requirements of GB/T 27947.

4.7 Quaternary ammonium disinfectant: It shall meet the requirements of GB/T 26369.

Note 2: When the instruction manuals indicate that in addition to the surface of ordinary objects, it is also used for other disinfection objects, or indicated of the killing effect for other microorganisms, it needs to increase the corresponding target microorganism killing test.

Note 3: Choose either the natural bacteria or simulated field test.

5.3 Safety indicators

5.3.1 Toxicological indicators

5.3.1.1 Acute oral toxicity test: The product is in its original form, or the solution with a maximum of 5 times the maximum concentration shall be practically non-toxic.

5.3.1.2 The mutagenicity test shall be negative.

5.3.1.3 A complete skin irritation test shall be non-irritating or lightly irritating (applicable if the product manual does not indicate personal protection)

5.3.2 Metal corrosion

It should use the product concentration that the corrosivity is mild (inclusive) to metal; it shall not cause damage to the material of the disinfection object.

6 Inspection methods

6.1 Physical-chemical indicators

6.1.1 The effective ingredient content of the product shall be determined in accordance with the methods specified in the "Technical specification for disinfection" (2002 edition) or other corresponding national standards and product quality standards. The pH value is measured in accordance with the method specified in the "Technical specification for disinfection" (2002 edition).

6.1.2 Stability test: It shall be determined in accordance with the methods specified in the "Technical specification for disinfection" (2002 edition) or other corresponding national standards and product quality standards.

6.2 Microbial killing test

It shall be determined in accordance with the "Technical specification for disinfection" (2002 edition) or other corresponding national standards.

6.3 Toxicological test

It shall be determined in accordance with the "Technical specification for disinfection" (2002 edition) or other corresponding national standards.

and dosage as recommended in Appendix A for disinfection.

8 Marking

8.1 Marking

The product's packaging mark shall comply with the provisions of GB 190 and GB/T 191.

8.2 Label

The product's label shall meet the requirements of the relevant specifications and standards for the disinfectant product's label manual.

8.3 Instruction manual

It shall meet the requirements of the relevant specifications and standards of the label instructions for disinfecting products; at the same time, the product instructions shall indicate the following precautions:

- According to the different characteristics of the object to be disinfected, choose and use the appropriate disinfectant.
- Disinfectants shall not be taken orally; it shall be kept out of the reach of children.
- Most of the disinfectants used for surface disinfection of objects have different degrees of corrosiveness, so it shall be used with caution when the use concentration is moderately corrosive to the corresponding materials of the objects to be disinfected. After disinfection until the action time is completed, use clean water to wipe or rinse the disinfected object to remove residual disinfectant.
- When sprinkling / spraying or vaporizing to sterilize the surface of objects, doors and windows shall be sealed. After the disinfection is completed, it shall be ventilated for more than 30 minutes; personnel is only allowed to enter after the disinfectant residue in the ambient air is lower than the corresponding national standard requirements. At the same time, personal protection shall be paid attention to during the disinfection process.
- Disinfectants that need to be diluted and disinfectants used after activation shall be used immediately after preparation.
- If the human body is inadvertently contacted, it shall be rinsed with clean water immediately. If it hurts the eyes, seek medical treatment as soon as possible.

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