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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 27952-2020

Replacing GB 27952-2011

General requirements for ordinary objects surface disinfectant

普通物体表面消毒剂通用要求

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1 Scope

GB 27952-2020 is the Chinese national standard on general requirements for ordinary objects surface disinfectant, in the field of health care technology. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 9 April 2020 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 November 2020. Classification: ICS 11.080, CCS C50. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

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.

5.3.1 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.

6.1 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.

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