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

GB/T 15963-2022

Replacing GB/T 15963-2008

Sodium lauryl sulfate

十二烷基硫酸钠

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part

1. Structure and Drafting Rules for Standardization Documents" drafting. This document replaces GB/T 15963-2008 "Sodium Lauryl Sulfate". Compared with GB/T 15963-2008, except for structural adjustment and In addition to editorial changes, the main technical changes are as follows:

- a) The regulations on the production process of the product have been changed, from "sulfonation of sulfur trioxide or neutralization with sulfation of chlorosulfonic acid" to "various processes" (see Chapter 1, Chapter 1 of the.2008 edition);
- b) Changed the expression of product classification (see Chapter 4, Chapter 3 of the.2008 edition);
- c) Changed the expression of product appearance and smell (see 4.1 of the.2008 edition);
- d) The grade of liquid products has been changed, and grades are no longer established (see 5.3, 4.2 of the.2008 edition);
- e) Indexes such as active substance content, pH, and water content have been changed (see 5.3, 4.2 of the.2008 edition);
- f) The index of inorganic salt content was deleted, and the index of sulfate content and chloride content was added (see 5.3, 4.2 of the.2008 edition);
- g) Changed the color index, expression method and measurement method (see

5.9 of the.2008 edition);

1 Scope

GB/T 15963-2022 is the Chinese national standard on sodium lauryl sulfate, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 December 2022 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2023. Classification: ICS 71.100.40, CCS G73. 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 document specifies the product structure and classification, requirements, test methods, inspection rules of sodium lauryl sulfate, as well as signs, packaging, shipping Transport, store. This document applies to fatty alcohols with lauryl alcohol as the main component, sodium lauryl sulfate prepared by various processes, including solid products and liquid product.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references For documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 3143 Determination of color of liquid chemical products (Hazen unit platinum-cobalt color number)

GB/T 5173 Determination of content of anionic active substances in surfactant detergents Direct two-phase titration method

GB/T 6366 Determination of Inorganic Sulfate Content in Surfactant Titrimetric Method

GB/T 6368 Potentiometric method for the determination of the pH value of aqueous surfactant solutions

GB/T 6682 Analytical laboratory water specifications and test methods

GB/T 8170 Numerical rounding off rules and expression and determination of limit values

GB/T 13173-2021 Surfactant detergent test method

GB/T 38729-2020 Surfactant industry primary alkyl sodium sulfate test method QB/T

2739-2005 Preparation of test solutions for titration analysis (volume analysis) of common test methods for washing products

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.

4 Product structure and classification

Sodium lauryl sulfate products are divided into two categories. powder, needle (granule) and other solid products and liquid products. Structural formula. $\text{CH}_3(\text{CH}_2)_n\text{OSO}_3\text{Na}$ (with $n=11$ as the main component) The carbon chain distribution of the alkyl group is agreed upon by the supply and demand parties.

5 Requirements

5.1 Appearance Liquid product. at 25°C, colorless or light yellow liquid, no separation, no suspended solids or precipitates. Solid product. white or yellowish powder, needle (grain) and other solids in different shapes at 25°C, uniform and free of impurities.