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

GB/T 13529-2022

Replacing GB/T 13529-2011

Sodium ethoxylated alkyl sulfate

乙氧基化烷基硫酸钠

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Table of Contents

- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 4 Product categories
- 5 Requirements

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 13529-2011 "Sodium Ethoxylated Alkyl Sulfate". Compared with GB/T 13529-2011, except for structural adjustment In addition to editorial changes, the main technical changes are as follows:

- a) Changed the item name of the content of ethoxylated alkyl sodium sulfate, and changed it to the content of anion active substances (see 5.3,.2011 edition 4.3);
- b) Changed the requirements for the content of sodium ethoxylated alkyl sulfate (see 5.3, 4.3 of the.2011 edition);
- c) Changed the requirements for unsulfated content of liquid products (see 5.3, 4.3 of the.2011 edition);
- d) Changed the pH requirements for paste products (see 5.3, 4.3 of the.2011 edition);
- e) increase the storage temperature of the product (see 8.4);
- f) The shelf life of canned products has been increased (see 8.5). Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents. This document is proposed by China National Light Industry Council. This document is under the jurisdiction of the National Standardization Technical Committee on Surfactants and Detergents (SAC/TC272). This document is drafted by: Zanyu Technology Group Co., Ltd., China Daily Chemical Research Institute Co., Ltd., Hunan Lichen Industrial Co., Ltd. Co., Ltd., Jiawenli (Fujian) Cosmetics Co., Ltd., Deshi Energy Technology Group Co., Ltd., Shenzhen Hengweixiang Technology Co., Ltd. Division, China Light Daily Chemical Inspection and Certification Co., Ltd. The

main drafters of this document. Shi Liwen, Yao Chenzhi, Hua Wengao, Duan Yuchen, Chen Linlin, Song Xinwang, Liu Dongfeng, Li Xiaohui. The release status of previous versions of this document and the documents it replaces are as follows:

--- First published as GB/T 13529-1992 in.1992, first revised in.2003, and second revised in.2011;

--- This is the third revision. Sodium Ethoxylated Alkyl Sulfate

1 Scope

GB/T 13529-2022 is the Chinese national standard on sodium ethoxylated alkyl 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 sodium ethoxylated alkyl sulfate (also known as "sodium fatty alcohol polyoxyethylene ether sulfate" and "sodium laureth sulfate". AES, SLES) product classification, requirements, test methods, inspection rules and signs, packaging, transportation, storage and shelf life. This document applies to industrial products of sodium ethoxylated alkyl sulfates produced by various processes.

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 Method for Determination of Color of Liquid Chemicals (Hazen Unit-Platinum-Cobalt Color Number)

GB/T 5173 Determination of anionic active substances in surfactants and 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 Data Rounding Rules and Representation and Judgment of Limit Values

GB/T 13530 Test method for sodium ethoxylated alkyl sulfate

GB/T 17829-1999 Polyethoxylated fatty alcohols

GB/T 26388 Determination of Dioxane Residues in Surfactants by Gas Chromatography

3 Terms and Definitions

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

4 Product categories

4.1 Structural formula $\text{RO}(\text{CH}_2\text{CH}_2\text{O})_n\text{SO}_3\text{Na}$ (R main component is C12~C15 alkyl; $n=1\sim3$)

4.2 Classification Products are classified according to the concentration of active substances.

- a) High concentration product. paste.
- b) Low-concentration products. liquid.

5 Requirements

5.1 Appearance Paste. white or light yellow gelatinous paste at 25°C.