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**LIGHT INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

QB/T 1224-2012

**Liquid Detergent for Fabric
(English Translation)**

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Foreword

This Standard was drafted as per the rules specified in GB/T 1.1-2009 Directives for Standardization - Part 1. Structure and Drafting of Standards.

This Standard replaced QB/T 1224-2007 Liquid Detergent for Fabric.

Compared with QB/T 1224-2007, this Standard has the major technical changes as follows.

- Revise the basis for the raw material requirements;
- Revise the total content index requirements for the active substances in the ordinary laundry detergent;
- Revise the pH determination concentration of the laundry detergent;
- Revise the solution concentration, reference compound, reference concentration and detergency evaluation requirements when determining the detergency of laundry detergent;
- Revise the name of pre-washed stain agent of the fabric;
- Revise the solution concentration, reference compound, reference concentration, detergency evaluation requirements when determining the detergency of the pre-washed stain agent of the fabric;

- Revise the basis for the inspection rules, marking and package requirements;
- Revise the quality guarantee period of the product;
- Add the type of silk & wool detergent and the corresponding index requirements;
- Add the evaluation requirements for the detergency of the silk & wool detergent;
- Add the index requirements for the laundry detergent, silk & wool detergent, collar & cuff pre-detergent against the phosphorus pentoxide;
- Cancel the grade requirements for the laundry detergent, collar & cuff pre-detergent.

This Standard was proposed by China Light Industry Council.

This Standard shall be under the jurisdiction of National Technical Committee for Standardization of Surface Active Agent and Detergent (SAC/TC 272).

Drafting organizations of this Standard. Xi'an Kaimi Co., Ltd., Guangzhou Blue Moon Industry Co., Ltd., Guangzhou Liby Enterprise Group Co., Ltd., Beijing Lvsan Chemical Co., Ltd., Beijing Luowa Daily Chemical Co., Ltd., Guangzhou Lonkey Industrial Co., Ltd., Unilever (China) Co., Ltd., Kao (China) Holding Co., Ltd., and National Cleaning Products Quality Supervision and Inspection Center (Taiyuan).

Chief drafting staffs of this Standard. Yu Wen, Pan Dong, Zhang Liping, Zhao Xinyu, Zhao Jianli, Zhao Jianhong, Shen Jun, Xu Zheng, and Zhang Baolian.

The historical editions replaced by this Standard are as follows.

- QB/T 1224-1991, QB/T 1224-2007.

Liquid Detergent for Fabric

1 Scope

This Standard specifies the terms and definitions, product classification and mark, requirements, test methods, inspection rules, marking, package, transportation, storage and quality guarantee period of the liquid detergent for fabric.

This Standard is applicable to the liquid detergent products (not applicable to the non-washing type products) made from various surface active agents and assistant; used for cleaning various fabrics.

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 document.

GB/T 6368 Surface Active Agents - Determination of pH of Aqueous Solution - Potentiometric Method

GB/T 13173-2008 Surface Active Agents - Detergents - Testing Methods

GB/T 13174-2008 Determination of Detergency and Cycle of Washing Property for Laundry Detergents

GB/T 26396 Technical Specification for Safety of Soaps and Detergents

QB/T 2951 Inspecting Rules for Detergent Products

QB/T 2952 Requirements for Detergent Marks and Packaging

3 Terms and Definitions

The following terms and definitions are applicable to this document.

3.1 Liquid laundry detergent

The cleaning product, taking water as the matrix, has certain degree of detergency. Generally used for cleaning various textiles, knitwear, etc.

3.3 Collar & cuff pre-detergent

The cleaning product, taking water or water and organic solvent as the matrix, has certain degree of detergency. Generally used for pre-cleaning the collar, cuff and local heavy dirty positions before the entirely washing of the whole clothes.

3.4 Structured laundry detergent

A kind of laundry detergent with special internal structure, the product appearance shows the uniform slurry liquid; its internal surface active agent components are regularly polymerized into liquid-crystal structure; and evenly disperse into the

continuous water phase; other types of assistant substances,

4.1 Product classification

According to the product using objects, it can be divided into three classes and two types, namely, laundry detergent (ordinary type, concentrated type), silk & wool detergent (ordinary type, concentrated type), and collar & cuff pre-detergent.

4.2 Product mark

The ordinary type of product can be marked directly then implement the standard; while the concentrated type of product shall be marked "concentrated type" characters after implementing the standard number.

5.1 Basic requirements

The various raw materials in the liquid detergent for fabric shall conform to the provisions Class-C product stipulated in GB/T 26396.

5.2.2 Property indicators of various liquid detergents for fabric shall conform to the

provisions of Table 2.

6 Test Methods

Unless otherwise is stated, the analytically pure reagent, distilled water or deionized water or water with the same purity shall be use for analysis.

6.1 Appearance

Weigh specimen no less than 200mL, place it into the dry, clean, colorless wide-mouth glass bottle with stopper; observe it under the non-direct light conditions.

6.4 Total active substance

Generally, it shall be determined according to the Method-A specified in Clause 7 of GB/T 13173-2008.

6.5 pH

It shall be performed as per the provisions of GB/T 6368. At the test temperature of