

Technical Requirement for Environmental Products
The Certificable Technical Requirement for Environmental Labelling Products

Detergent

HJBZ 8—1999
Replace HJBZ 8—1995

1 Scope

This technical requirement specifies definition, basic requirements, technical contents and test method for environmental labelling products of detergent.

This technical requirement shall apply to various textile detergent, dish washing detergent and industry detergent (limited to water-soluble detergent).

2 Standards cited

Provisions in the following standards are cited in this technical requirement, and therefore form the provisions in this standard. They have the same effectiveness as the technical requirement itself.

GB 9985—88 Dish washing detergents

GB/T13171—1997 Laundry powders

GB/T 13174—91 Determination of detergency for laundry detergents

QB 1224—91 Liquid detergent for clothing

QB/T 2115—95 Determination of carbonate content in detergent

QB/T 2116—95 Laundry cream

QB/T 2117—95 Universal water-soluble metal detergent

In case of the criteria above are revised, the latest version should be applied.

3 Definition

3.1 Textile detergent: detergent which formulated by surfactant, detergency builder and additive for washing textile (including powder, cream and liquid).

3.2 Dish washing detergent: detergent which formulated by surfactant and certain additives for washing vegetable, fruit, dishware, etc.

3.3 Industry detergent: universal water-soluble detergent which formulated by surfactant and a variety of additives for cleaning hard surface of materials (excluding those for cleaning food/drink machinery).

4 Basic requirements

4.1 Quality requirements

4.1.1 Quality of products for textile detergent should conform with the requirements of GB/T 13171-1997 (not apply to total active matter, polyphosphate, 0.77 times of the sum content of 4A zeolite $\geq 30\%$ or 40%), QB 1224-91 or QB/T 2116-95.

4.1.2 Quality of products for dish washing detergent should conform with the requirements of GB9985- 88.

4.1.3 Quality of products for industry detergents should conform with requirements of industry standards, among which quality of metal surface detergents should fit into the requirement of GB/T 2117-95.

Approved by SEPA on 3/23/1999

Entered into force on 3/23/1999

4.2 Requirement for pollutant emission

Pollutant emission of the company should conform with pollutant emission standards nationally or locally.

5 Technical contents

5.1 Textile detergent

5.1.1 Total phosphate content in products should be $\leq 1.1\%$ (by P_2O_5).

5.1.2 Na_2CO_3 content in products should $\leq 25\%$.

5.1.3 TPBS, alkylphenol ethoxylates should not be used in products.

5.1.4 Detergent power rate ≥ 1.0 .

5.2 Dish washing detergent

5.2.1 Total phosphate content in products should be $\leq 1.1\%$ (by P_2O_5).

5.2.2 LD_{50} of products should be $\geq 5000\text{mg/kg}$ (body weight).

5.3 Industry detergents

5.3.1 Total phosphate content in products should be $\leq 1.1\%$ (by P_2O_5).

5.3.2 TPBS, alkylphenol ethoxylates should not be used in products.

6 Test

6.1 Methods specified in GB/T 13171- 1997 should be adopted for testing total phosphate in products.

6.2 Methods specified in QB/T 2115-95 should be adopted for testing Na_2CO_3 content in textile detergent.

6.3 LD_{50} of dish washing detergent should be determined by the method described in "Laboratory Technique Standard of Disinfection and Sterilization" (issued by Ministry of Public Health in 1997, trial version).

6.4 Detergent power rate should be determined according to the method specified by GB/T 13174-91.

Annotations:

This technical requirement has been prepared by Department of Science, Technology and Standards of State Environment Protection Administration.

The State Environment Protection Administration keeps the right of interpretation for this technical requirement.