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**SANS 639:2013**

Edition 3.1

# **SOUTH AFRICAN NATIONAL STANDARD**

## **Detergent-disinfectants based on quaternary ammonium compounds**

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### Table of changes

Change No.	Date	Scope
Amdt 1	2013	Amended to update referenced standards.

### Foreword

This South African standard was approved by National Committee SABS TC 1022, *Antiseptics, disinfectants and detergent-disinfectants*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in March 2013.

This document supersedes SANS 639:2009 (edition 3).

A vertical line in the margin shows where the text has been technically modified by amendment No. 1.

A reference is made in 6.1.1 and 6.2 to methods of packaging and marking that comply with the relevant regulations under "the current relevant national legislation". In South Africa this means the Trade Metrology Act, 1973 (Act No. 77 of 1973).

A reference is made in 6.2 to markings required in terms of regulations promulgated under "the current relevant national legislation". In South Africa this means the Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act No. 54 of 1972).

Annexes A and B form an integral part of this standard. Annex C is for information only.

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## **Detergent-disinfectants based on quaternary ammonium compounds**

### **1 Scope**

**1.1** This standard specifies requirements for two types of detergent-disinfectants based on quaternary ammonium compounds and other chemical agents (such as compatible surface-active agents and phosphates) that are miscible with water and intended for use on inanimate surfaces that have been cleaned with potable water and have had gross soil removed, and are free from visible soil.

**1.2** It is intended for the evaluation of detergent-disinfectants based on quaternary ammonium compounds for general use. Quaternary ammonium compounds are organically substituted ammonium compounds in which the nitrogen compound has a valence of five. Four of the substituent radicals are alkyl or heterocyclic radicals and the fifth is an ion. Examples include cetrimide, benzalkonium chloride and benzethonium chloride.

NOTE 1 Using this standard, it is not possible to determine the bactericidal activity of the undiluted product. Some dilution is always produced by the addition of inoculum, hard water and sterile skimmed milk.

NOTE 2 If a product complies with the test requirements, it can be considered to be bactericidal, but it should not necessarily be inferred that the product is a suitable detergent-disinfectant for a defined purpose.

### **2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

BS EN 485-2, *Aluminium and aluminium alloys – Sheet, strip and plate – Part 2: Mechanical properties.*

EN 10088-2, *Stainless steels – Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes.*

SANS 289, *Labelling requirements for prepackaged products (prepackages) and general requirements for the sale of goods subject to legal metrology control.*

~~SANS 5011/ISO 10523, *Water quality – Determination of pH.*~~

Amdt 1 |

SANS 6316:2007, *Detergents and cleaning agents – Corrosiveness to steel and aluminium.*

SANS 7218/ISO 7218, *Microbiology of food and animal feeding stuffs – General requirements and guidance for microbiological examinations.*