

ISBN 978-0-626-34120-6

SANS 449:2017

Edition 4.3

SOUTH AFRICAN NATIONAL STANDARD

The manufacture of soft drinks and soft drink concentrates

WARNING

This document references other documents normatively.

Published by SABS Standards Division
1 Dr Lategan Road Groenkloof ☒ Private Bag X191 Pretoria 0001
Tel: +27 12 428 7911 Fax: +27 12 344 1568

www.sabs.co.za

© SABS

SABS

SANS 449:2017
Edition 4.3

Table of changes

| Change No. | Date | Scope |
|-------------------|-------------|---|
| Amdt 1 | 2009 | Amended to change the designation of SABS standards to SANS standards, to update the definition of "acceptable", and to delete reference to national legislation and to the certification mark from the text. |
| Amdt 2 | 2011 | Amended to update a referenced standard. |
| Amdt 3 | 2017 | Amended to update the requirements for the determination of chemical compounds, and to delete the subclause on the determination of the cyclamate content. |

Foreword

This South African standard was approved by National Committee SABS/TC 1037, *Non-alcoholic beverages*, in accordance with procedures of the SABS Standards Division.

This document was approved for publication in February 2017.

This document supersedes SANS 449:2011 (edition 4.2).

A vertical line in the margin shows where the text has been technically modified by amendment No. 3.

A reference is made in 3.7, 5.1, 5.4, 6.2 and 6.3 to "the relevant national legislation". In South Africa this means the Foodstuffs, Cosmetics and Disinfectants Act, 1972 (Act No. 54 of 1972)

A reference is made in 3.9 and 6.2.2 to "the relevant national legislation". In South Africa this means the Agricultural Products Standards Act, 1990 (Act No. 119 of 1990).

A reference is made in 4.1 to "the relevant statutory requirements of the relevant national legislation". In South Africa this means the requirements of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and of the Health Act, 1977 (Act No. 63 of 1977), (particularly the requirements of R918 of 30 July, 1999: Regulations relating to the general hygiene conditions of food premises and the transport).

A reference is made in 4.2.1.17 to "the said relevant national legislation". In South Africa this means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).

A reference is made in 4.2.3.6 to "the relevant national legislation". In South Africa this means the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No. 36 of 1947).

A reference is made in 6.1.3.5 to "the relevant statutory requirements of the relevant national legislation". In South Africa this means the requirements of the Legal Metrology Act, 2014 (Act No. 9 of 2014).

Amdt 1

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

Compliance with this document cannot confer immunity from legal obligations.

Contents

| | Page |
|--|------|
| Foreword | |
| 1 Scope | 3 |
| 2 Normative references | 3 |
| 3 Definitions | 4 |
| 4 Requirements for production facilities and employees | 5 |
| 5 Ingredient requirements | 13 |
| 6 Requirements for the product | 15 |
| 7 Methods of physical examination and chemical analysis | 17 |
| 8 Methods of microbiological examination | 22 |
| 9 Containers | 22 |
| Annex A (normative) Notes to purchasers | 24 |
| Annex B (informative) Quality verification of soft drinks and soft drink concentrates | 24 |
| Annex C (normative) Sampling and compliance with this standard | 24 |
| Bibliography | 25 |

SANS 449:2017
Edition 4.3

This page is intentionally left blank

The manufacture of soft drinks and soft drink concentrates

1 Scope

This standard specifies the description, treatment, testing, bottling, packaging and labelling of soft drinks and soft drink concentrates and the requirements for production facilities and employees.

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.

2.1 Standards

SANS 241-1, *Drinking water – Part 1: Microbiological, physical, aesthetic and chemical determinands*.
Amdt 2

SANS 388, *Commercial dextrose and liquid glucose*.

SANS 638/SADC HS 15, *Food grade salt*.

SANS 4833/ISO 4833, *Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of microorganisms – Colony-count technique at 30 °C*.

SANS 7251/ISO 7251, *Microbiology of food and animal feeding stuffs – Horizontal method for the detection and enumeration of presumptive Escherichia coli – Most probable number technique*.

SANS 7954/ISO 7954, *Microbiology – General guidance for enumeration of yeasts and moulds – Colony count technique at 25 °C*.

2.2 Other publications

AOAC Method 962.11, *Phosphorus in brine*.

AOAC Method 962.16, *Sulfurous acid (total) in food*.

Food Chemicals Codex, 4th Ed., National Academy Press, Washington DC, USA.

Methods Book of the International Commission for Uniform Methods of Sugar Analysis (ICUMSA), published by ICUMSA; c/o British Sugar Technical Centre; Norwich Research Centre; Norwich Research Park; COLNEY; NORWICH NR4 7UB; ENGLAND.

Official methods of analysis of the Association of Official Analytical Chemists (AOAC).

Pearsons chemical analysis of foods, 8th Ed., Churchill Livingstone (Pearsons).