



NSAI
Standards

Irish Standard
I.S. EN 1405:2009

Chemicals used for treatment of water intended for human consumption - Sodium alginate

I.S. EN 1405:2009

Incorporating amendments/corrigenda issued since publication:

<i>This document replaces:</i> EN 1405:1998	<i>This document is based on:</i> EN 1405:2009 EN 1405:1998	<i>Published:</i> 26 August, 2009 13 November, 1998
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This document was published under the authority of the NSAI and comes into effect on: 15 September, 2009	ICS number: 71.100.80
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Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

Chemicals used for treatment of water intended for human consumption - Sodium alginate

Produits chimiques utilisés pour le traitement de l'eau destinée à la consommation humaine - Alginates de sodium

Produkte zur Aufbereitung von Wasser für den menschlichen Gebrauch - Natrium-Alginat

This European Standard was approved by CEN on 24 July 2009.

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Foreword

This document (EN 1405:2009) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2010, and conflicting national standards shall be withdrawn at the latest by February 2010.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1405:1998.

Annex A is informative and gives some information on origin, use and handling of sodium alginate.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by this standard:

- 1) This standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA;
- 2) It should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

NOTE Conformity with this standard does not confer or imply acceptance or approval of the product in any of the Member States of the EU or EFTA. The use of the product covered by this European Standard is subject to regulation or control by National Authorities.

WARNING — The use of this standard may involve hazardous substances, materials, operations and equipment. This standard does not purport to address all the safety aspects associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This European standard is applicable to sodium alginate used for treatment of water intended for human consumption. It describes the characteristics of sodium alginate and specifies the requirements and the corresponding test methods for sodium alginate.

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.

EN ISO 3696, *Water for analytical laboratory use — Specification and test methods (ISO 3696:1987)*

ISO 3165, *Sampling of chemical products for industrial use — Safety in sampling*

ISO 6206, *Chemical products for industrial use — Sampling — Vocabulary*

ISO 8213, *Chemical products for industrial use — Sampling techniques — Solid chemical products in the form of particles varying from powders to coarse lumps*

3 Description

3.1 Identification

3.1.1 Chemical name

Sodium alginate

NOTE Linear glycuronoglycan consisting mainly of (1-4) linked β -D-mannuronic acid units and (1-4) linked α -L-guluronic acid units in pyranose ring form.

3.1.2 Synonym or common name

Algin.

3.1.3 Relative molecular mass

10 000 to 250 000 approximately.

3.1.4 Empirical formula

$(C_6O_6H_7Na)_n$.

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