



NSAI
Standards

Irish Standard
I.S. EN 15077:2013

Chemicals used for treatment of swimming pool water - Sodium hypochlorite

© CEN 2013

No copying without NSAI permission except as permitted by copyright law.

I.S. EN 15077:2013

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWIFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

This document replaces:
EN 15077:2006

<i>This document is based on:</i> EN 15077:2013 EN 15077:2006	<i>Published:</i> 16 May, 2013 5 July, 2006
---	---

This document was published under the authority of the NSAI and comes into effect on:
16 May, 2013

ICS number:
71.100.80

NSAI
1 Swift Square,
Northwood, Santry
Dublin 9

T +353 1 807 3800
F +353 1 807 3838
E standards@nsai.ie
W NSAI.ie

Sales:
T +353 1 857 6730
F +353 1 857 6729
W standards.ie

Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

Chemicals used for treatment of swimming pool water - Sodium hypochlorite

Produits chimiques utilisés pour le traitement de l'eau des piscines - Hypochlorite de sodium

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Natriumhypochlorit

This European Standard was approved by CEN on 14 March 2013.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

Foreword.....	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Description	6
3.1 Identification.....	6
3.1.1 Chemical name.....	6
3.1.2 Synonym or common names.....	6
3.1.3 Relative molecular mass.....	6
3.1.4 Empirical formula.....	6
3.1.5 Chemical formula	6
3.1.6 CAS Registry Number	6
3.1.7 EINECS reference.....	6
3.2 Commercial form.....	6
3.3 Physical properties	7
3.3.1 Appearance and odour	7
3.3.2 Density.....	7
3.3.3 Solubility in water.....	7
3.3.4 Vapour pressure.....	7
3.3.5 Boiling point at 100 kPa	7
3.3.6 Crystallisation and freezing point	7
3.3.7 Specific heat.....	7
3.3.8 Viscosity (dynamic).....	7
3.3.9 Critical temperature	7
3.3.10 Critical pressure.....	7
3.3.11 Physical hardness.....	7
3.4 Chemical properties.....	7
4 Purity criteria.....	8
4.1 General	8
4.2 Composition of commercial product.....	8
4.3 Impurities and main by-products	8
4.4 Chemical parameters	8
5 Test methods.....	9
6 Labelling - Transportation - Storage	9
6.1 Means of delivery	9
6.2 Labelling according to EU legislation	10
6.3 Transportation regulations and labelling.....	11
6.4 Marking	11
6.5 Storage	11
6.5.1 General	11
6.5.2 Long-term stability	11
6.5.3 Storage incompatibilities.....	11
Annex A (informative) General information on sodium hypochlorite	13
A.1 Origin.....	13
A.1.1 Raw materials.....	13
A.1.2 Manufacturing process	13
A.2 Use.....	13
A.2.1 Function.....	13
A.2.2 Form in which it is used.....	13

A.2.3 Treatment dose.....13
A.2.4 Means of application13
A.2.5 Secondary effects13
A.2.6 Removal of excess product13
Annex B (normative) General rules relating to safety14
B.1 Rules for safe handling and use.....14
B.2 Emergency procedures.....14
B.2.1 First aid.....14
B.2.2 Spillage.....14
B.2.3 Fire.....14
Bibliography.....15

This is a free 8 page sample. Access the full version online.

Foreword

This document (EN 15077:2013) 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 November 2013, and conflicting national standards shall be withdrawn at the latest by November 2013.

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 15077:2006.

Significant technical differences between this edition and EN 15077:2006 are as follows:

- Replacement of warning and safety precautions notes by labelling according to Regulation (EC) No 1272/2008 [3].

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

Introduction

In respect of potential adverse effects on the quality of water for swimming pools caused by the product covered by this European Standard, the following statements apply:

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

NOTE 2 This product is a biocide and needs to comply with the relevant legislation in force. In the European Union, at the time of publication, this legislation is Directive 1998/8/EC [1].

1 Scope

This European Standard is applicable to sodium hypochlorite used directly or for the production of formulations for treating swimming pool water. It describes the characteristics of sodium hypochlorite and specifies the requirements and the corresponding test methods for sodium hypochlorite. It gives information on its use for treating swimming pool water and determines the rules relating to safe handling and use of sodium hypochlorite (see Annex B).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 901, *Chemicals used for treatment of water intended for human consumption — Sodium hypochlorite*

3 Description

3.1 Identification

3.1.1 Chemical name

Sodium hypochlorite.

3.1.2 Synonym or common names

Liquid bleach, soda bleach, bleach lye.

3.1.3 Relative molecular mass

74,44.

3.1.4 Empirical formula

NaClO.

3.1.5 Chemical formula

NaClO.

3.1.6 CAS Registry Number¹⁾

7681-52-9.

3.1.7 EINECS reference²⁾

231-668-3.

3.2 Commercial form

The product is supplied as an aqueous solution with an available (active) chlorine concentration up to a mass fraction of 18 %.

1) Chemical Abstracts Service Registry Number.

2) European Inventory of Existing Commercial Chemical Substances.

This is a free preview. Purchase the entire publication at the link below:

I.S. EN 15077 : 2013 : EN : COMBINED PDF

-
- ⊙ Looking for additional Standards? Visit SAI Global Infostore
 - ⊙ Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-

Need to speak with a Customer Service Representative - Contact Us