



SLOVENSKI STANDARD
SIST EN 15076:2006

01-oktober-2006

Kemikalije, ki se uporabljajo za pripravo bazenske vode - Natrijev hidroksid

Chemicals used for treatment of swimming pool water - Sodium hydroxide

Produkte zur Aufbereitung von Schwimm-und Badebeckenwasser - Natriumhydroxid

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

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Ta slovenski standard je istoveten z: EN 15076:2006

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ICS:

13.060.25	Voda za industrijsko uporabo	Water for industrial use
71.100.80	Kemikalije za čiščenje vode	Chemicals for purification of water

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EUROPEAN STANDARD

EN 15076

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 71.100.80

English Version

Chemicals used for treatment of swimming pool water - Sodium hydroxide

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

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Natriumhydroxid

This European Standard was approved by CEN on 5 June 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, 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 United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (EN 15076:2006) 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 January 2007, and conflicting national standards shall be withdrawn at the latest by January 2007.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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 United Kingdom.

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Introduction

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

a) 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;

b) 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 European 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.

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1 Scope

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

2 Normative reference

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 896, *Chemicals used for treatment of water intended for human consumption — Sodium hydroxide*.

3 Description

The identification, commercial form, physical properties and chemical properties are given in the relevant sub-clauses of EN 896.

4 Purity criteria iTeh STANDARD PREVIEW (standards.iteh.ai)

4.1 General

This European Standard specifies the minimum purity requirements for sodium hydroxide used for treating swimming pool water. Limits are given for impurities commonly present in this product and depending on the raw material and the manufacturing process, other impurities may be present and if so, the user and when necessary, the relevant authorities shall be notified.

NOTE Users of this product should check the national regulations in order to clarify whether it is of appropriate purity for treating swimming pool water, taking into account water quality, required dosage, contents of other impurities and additives used in the product not stated in this product standard.

Limits have been given for impurities and trace elements where these are likely to be present in significant quantities from the current production process and raw materials. If the production process or raw materials leads to significant quantities of impure by-products or additives being present, the user shall be notified.

4.2 Composition of commercial product

The commercial product shall have a typical concentration for solutions of sodium hydroxide with a mass fraction of 50 % or 30 % and shall be in accordance within the manufacturer's declared values.

4.3 Impurities and main by-products

The contents of sodium chloride, sodium carbonate and sodium chlorate shall conform to the requirements specified in EN 896.

4.4 Chemical parameters

The contents of arsenic, cadmium, chromium, mercury, nickel, lead, antimony and selenium shall conform to the requirements specified in EN 896.

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NOTE Cyanides (CN⁻), pesticides and polycyclic aromatic hydrocarbons are not relevant to sodium hydroxide.

5 Test methods

The sampling and the analytical methods are those described in EN 896.

6 Labelling – Transportation – Storage**6.1 Means of delivery**

Sodium hydroxide solutions can be delivered in containers, drums or in cans or bottles.

To ensure the purity of the product the means of delivery shall not have been previously used for any different product or it shall have been specially cleaned and prepared before use.

6.2 Risk and safety labelling according to the EU Directives¹⁾

The following labelling requirements shall apply to sodium hydroxide solution at the publication date of this European Standard:

a) solution of concentration between or equal to a mass fraction of 1 % and 5 % of NaOH:

- Symbols and indications of danger:
 - Xi: Irritant.
- Nature of special risks attributed to dangerous substances:
 - R 36/38: Irritating to eyes and skin.
- Safety advice concerning dangerous substances:
 - S 2: Keep out of reach of children.
 - S 26: In case of contact with eyes, rinse immediately with water and seek medical advice.

b) solution of concentration more than mass fraction of 5 % NaOH:

- Symbols and indications of danger:
 - C: Corrosive.
- Nature of special risks attributed to dangerous substances:
 - R 35: Causes severe burns.

1) See [1]

- Safety advice concerning dangerous substances:
 - S 2: Keep out of reach of children.
 - S 26: In case of contact with eyes, rinse immediately with water and seek medical advice.
 - S 27: Take off immediately all contaminated clothing.
 - S 37/39: Wear suitable gloves and eye/face protection.

NOTE Annex I of the Directive 67/548/EEC on classification, packaging and labelling of dangerous substances and its amendments and adaptations in the European Union contains a list of substances classified by the EU. Substances not in this Annex I should be classified on the basis of their intrinsic properties according to the criteria in the Directive by the person responsible for the marketing of the substance.

6.3 Transportation regulations and labelling

Sodium hydroxide solution is listed as UN Number ²⁾: 1824.

The labelling requirements are the following at the date of publication of this European Standard:

RID ³⁾ /ADR ⁴⁾: class 8, classification code C5, packing group II.

IMDG ⁵⁾: class 8, packing group II.

IATA⁶⁾: class 8, packing group II.

6.4 Marking

The marking shall include the following information:

- name "sodium hydroxide", trade name and type;
- net mass;
- name and the address of the supplier and/or manufacturer;
- statement "this product conforms to EN 15076".

2) United Nations Number.

3) Regulations concerning International carriage of Dangerous goods by rail.

4) European Agreement concerning the international carriage of Dangerous goods by Road

5) International Maritime transport of Dangerous Goods

6) International Air Transport Association.