

SLOVENSKI STANDARD SIST EN 15363:2009

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Kemikalije, ki se uporabljajo za pripravo bazenske vode - Klor

Chemicals used for treatment of swimming pool water - Chlorine

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Chlor

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

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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

SIST EN 15363:2009 en,fr,de

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English Version

Chemicals used for treatment of swimming pool water - Chlorine

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

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Chlor

This European Standard was approved by CEN on 23 September 2007.

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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 Management Centre has the same status as the official versions.

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

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Foreword

This document (EN 15363:2007) 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of an identical text or by endorsement, at the latest by May 2008, and conflicting national standards shall be withdrawn at the latest by May 2008.

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.

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.

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Introduction

In respect of the potential adverse effects on the quality of swimming pool water caused by the product covered by this document:

- a) this document 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 document 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 document is subject to regulation or control by National Authorities.

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1 Scope

This document is applicable to chlorine used for the treatment of swimming pool water. It describes the characteristics of chlorine and specifies the requirements and the corresponding test methods for chlorine. It provides information on its use in swimming pool water treatment and determines the rules relating to safe handling and use of chlorine (see Annex B).

2 Normative references

The following referenced document is 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 937, Chemicals used for the treatment of water intended for human consumption – Chlorine

3 Description

For the identification, commercial form, physical properties and the chemical properties see the relevant subclauses of EN 937.

4 Purity criteria iTeh STANDARD PREVIEW 4.1 General (standards.iteh.ai)

This document specifies the minimum purity requirements for chlorine used for the treatment of swimming pool water. Limits are given for impurities commonly present in the product. Depending on the raw material and the manufacturing process other impurities may be present and, if so, this shall be notified to the user and when necessary to relevant authorities.

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

Limits have been given for impurities and chemical parameters 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 lead to significant quantities of other impurities, by-products or additives being present, this shall be notified to the user.

4.2 Composition of commercial product

The product shall contain at least a mass fraction of 99,5 % of chlorine.

4.3 Impurities and main by-products

The content of nitrogen trichloride (NCl₃) and moisture shall conform to the requirements specified in EN 937.

4.4 Chemical parameters

The content of mercury for each type of product shall conform to the requirements specified in EN 937.

NOTE Cyanides, pesticides and polycyclic aromatic hydrocarbons are not by-products of the manufacturing process and therefore not relevant.

Test methods 5

The methods for sampling and analysis are those specified in EN 937.

Labelling - Transportation - Storage 6

6.1 Means of delivery

Chlorine shall be delivered in transportable pressure equipment (cylinders, pressure drums, tanks, portable tanks).

In order that the purity of the product is not affected, 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 Directives 1)

The following labelling requirements shall apply to chlorine at the date of the publication of this document.

Symbols and indications of danger:

- T: Toxic.
- N: Dangerous for the environment, TANDARD PREVIEW

Nature of special risks attributed to dangerous substances is iteh.ai)

- R 23: Toxic by inhalation; SIST EN 15363:2009
 - https://standards.iteh.ai/catalog/standards/sist/5c39fecc-b7fc-4776-bd9a-
- R 50: Very toxic to aquatic organisms; d00e2eb83/sist-en-15363-2009
- R 36/37/38: Irritating to eyes, respiratory system and skin;

Safety advice concerning dangerous substances:

- S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible);
- S 61: Avoid release to the environment Refer to special instructions / safety data sheet;
- S 7/9: Keep container tightly closed and in a well-ventilated place.

6.3 Transportation regulations and labelling

Chlorine is listed as UN Number ²⁾ 1017 for gaseous phase.

¹⁾ See [1].

²⁾ United Nations Number.

RID ³⁾ ADR ⁴⁾: class 2, classification code 2TC.

IMDG ⁵⁾: class 2.

IATA 6): Not permitted unless special authority agreement.

6.4 Marking

The marking shall include the following:

- name "chlorine", trade name, grade and type;
- net mass:
- name and address of supplier and/or manufacturer;
- labelling as a biocidal product pursuant to Article 20 of the Directive 98/8/EC concerning the placing of biocidal products on the market;
- statement "this product conforms to EN 15363".

6.5 Storage

6.5.1 General iTeh STANDARD PREVIEW

Dry chlorine shall be stored under pressure in mild steel. The dew point of the gas shall be at least - 40 °C.

The filling ratio of a container shall not exceed 1,25 kg/dm³. Storage tanks shall be protected from direct sunlight, the temperature of the container not exceeding 50 °C.

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6.5.2 Long term stability

Stable.

6.5.3 Storage incompatibilities

Refer to EN 937.

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.