SLOVENSKI STANDARD
SIST EN 15073:2013

01-julij-2013

Nadomešča:
SIST EN 15073:2006+A1:2008

Kemikalije, ki se uporabljajo za pripravo bazenske vode - Natrijev diklorizocianurat, dehidriran

Chemicals used for treatment of swimming pool water - Sodium dichloroisocyanurate, dihydrate

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Natriumdichlorisocyanurat-Dihydrat

Produits chimiques utilisés pour le traitement de l'eau des piscines - Dichloroisocyanurate de sodium, dihydraté

Ta slovenski standard je istoveten z: **EN 15073:2013**

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 15073:2013 **en,fr,de**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 15073

May 2013

ICS 71.100.80

Supersedes EN 15073:2006+A1:2008

English Version

Chemicals used for treatment of swimming pool water - Sodium dichloroisocyanurate, dihydrate

Produits chimiques utilisés pour le traitement de l'eau des piscines - Dichloroisocyanurate de sodium, dihydraté

Produkte zur Aufbereitung von Schwimm- und Badebeckenwasser - Natriumdichlorisocyanurat-Dihydrat

This European Standard was approved by CEN on 28 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

Ref. No. EN 15073:2013: E

Contents

Page

Foreword

This document (EN 15073:2013) 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 15073:2006+A1:2008.

Significant technical differences between this edition and EN 15073:2006+A1:2008 are as follows:

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

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 intended for swimming pools caused by the product covered by this European Standard, the following statements apply:

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 1 Conformity with this European Standard does not confer or imply acceptance or approval of the products in any of the Member States of the EU or EFTA. The use of the products 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 dichloroisocyanurate, dihydrate used directly or used to prepare commercial formulations for disinfecting swimming pool water. It describes the characteristics of sodium dichloroisocyanurate, dehydrate and specifies the requirements and the corresponding test methods for sodium dichloroisocyanurate, dihydrate. It gives information on its use for treating swimming pool water. It also determines the rules relating to safe handling and use (see Annex B).

2 Normative reference

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 12932:2008, *Chemicals used for treatment of water intended for human consumption — Chemicals for emergency use — Sodium dichloroisocyanurate, dihydrate*

3 Description

3.1 Identification

3.1.1 Chemical name

1-sodium, 3, 5-dichloro-1,3,5-triazine-2, 4, 6-trione dihydrate.

3.1.2 Synonym or common name

Sodium dichloroisocyanurate, dihydrate.

Troclosene sodium, dihydrate

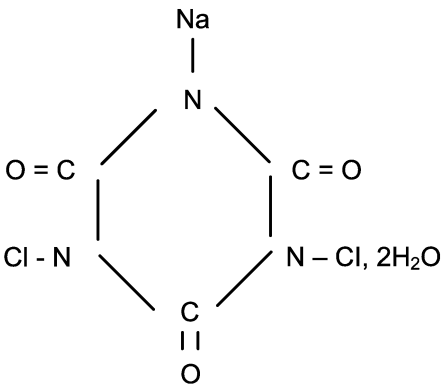
3.1.3 Relative molecular mass

256,02.

3.1.4 Empirical formula

$C_3N_3O_3Cl_2Na.2H_2O$.

3.1.5 Chemical formula



3.1.6 CAS Registry Number [1)]

51580-86-0.

3.1.7 EINECS reference [2)]

Not listed.

3.2 Commercial form

The product is available in various granular forms.

3.3 Physical properties

3.3.1 Appearance and odour

The product is a white granular solid with chlorinous odour.

3.3.2 Density

The bulk density of the product is approximately 0,9 g/cm^3.

3.3.3 Solubility in water

The solubility of the product in water is 291 g/l at 25 °C.

3.3.4 Vapour pressure

Not applicable.

3.3.5 Boiling point at 100 kPa [3)]

Not applicable, the product decomposes before fusion.

---

1) Chemical Abstracts Service Registry Number.

2) European Inventory of Existing Commercial Chemical Substances.

3) 100 kPa = 1 bar.

3.3.6 Melting point

Not applicable.

3.3.7 Specific heat

(1,090 ± 0,040) kJ/kg.K at 20 °C.

3.3.8 Viscosity

Not applicable.

3.3.9 Critical temperature

Not applicable.

3.3.10 Critical pressure

Not applicable.

3.3.11 Physical hardness

Not applicable.

3.4 Chemical properties

The product is a strong oxidant. It liberates chlorine by hydrolysis.

4 Purity criteria

4.1 General

This European Standard specifies the minimum purity requirements for dihydrate sodium dichloroisocyanurate used for the treatment of water for swimming pools. 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, the user shall be notified and, when necessary, the relevant authorities.

Users of this product should check the national regulations in order to clarify whether it is of appropriate purity for treatment of water for swimming pools, taking into account raw 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 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 impurities, by-products or additives being present, the user shall be notified.

4.2 Composition of commercial product

The product shall contain at least a mass fraction of 55 % of available chlorine as calculated in accordance with the corresponding method given in EN 12932:2008, 5.2.1.