



SLOVENSKI STANDARD

oSIST prEN 15073:2020

01-september-2020

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

<https://standards.iteh.ai/catalog/standards/sist/f75d3ca7-c43b-4a58-99fc-cd0b618bd61b/osist-pr-en-15073-2020>

Ta slovenski standard je istoveten z: prEN 15073

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
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 15073

June 2020

ICS 71.100.80

Will supersede EN 15073:2013

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 draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 164.

If this draft becomes a European Standard, 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.

This draft European Standard was established by CEN 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (prEN 15073:2020) has been prepared by Technical Committee CEN/TC 164 “Water supply”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 15073:2013.

In comparison with the previous edition, the following technical modifications have been made:

- a) Modification of 7.3 on transportation regulations and labelling, adding the sentence “The user shall be aware of the incompatibilities between transported products.”;
- b) Modification of 7.4 on marking. The requirements of marking are also applied to the accompanying documents;
- c) Update of 7.2;
- d) Update of normative reference.

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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 document, the following statements apply:

- 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 1 Conformity with this document 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 document 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 Regulation (EU) No 528/2012 [1].

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1 Scope

This document 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.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 12932:2015, *Chemicals used for treatment of water intended for human consumption — Chemicals for emergency use — Sodium dichloroisocyanurate, dihydrate*

3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>
- IEC Electropedia: available at <http://www.electropedia.org/>

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4 Description

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4.1 Identification <https://standards.iteh.ai/catalog/standards/sist/f75d3ca7-c43b-4a58-99fc-cd0b618bd61b/osist-pren-15073-2020>

4.1.1 Chemical name

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

4.1.2 Synonym or common name

Sodium dichloroisocyanurate, dihydrate.

Troclosene sodium, dihydrate

4.1.3 Relative molecular mass

256,02.

4.1.4 Empirical formula

$C_3N_3O_3Cl_2Na \cdot 2H_2O$.

4.1.5 Chemical formula

See Figure 1.

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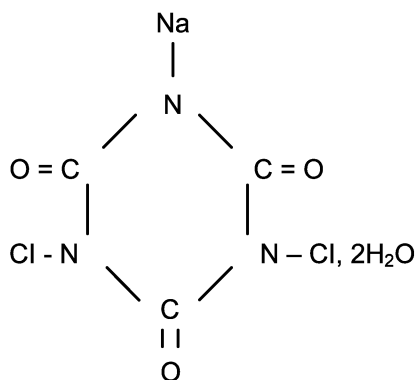


Figure 1 — Chemical formula of sodium dichloroisocyanurate dihydrate

4.1.6 CAS Registry Number ¹

51580-86-0.

4.1.7 EINECS reference ²

Not listed.

4.2 Commercial form

The product is available in various granular forms. For safe handling and use and emergency procedures of sodium dichloroisocyanurate dihydrate, refer to Annex B.

4.3 Physical properties

4.3.1 Appearance and odour

The product is a white granular solid with chlorinous odour.

4.3.2 Density

The bulk density of the product is approximately 0,9 g/cm³.

4.3.3 Solubility in water

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

4.3.4 Vapour pressure

Not applicable.

4.3.5 Boiling point at 100 kPa

Not applicable, the product decomposes before fusion.

NOTE 100 kPa = 1 bar.

4.3.6 Melting point

Not applicable.

¹ Chemical Abstracts Service Registry Number.

² European Inventory of Existing Commercial Chemical Substances.

4.3.7 Specific heat

(1,090 ± 0,040) kJ/kg.K at 20 °C.

4.3.8 Viscosity

Not applicable.

4.3.9 Critical temperature

Not applicable.

4.3.10 Critical pressure

Not applicable.

4.3.11 Physical hardness

Not applicable.

4.4 Chemical properties

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

For additional information on sodium dichloroisocyanurate, dihydrate, see Annex A.

5 Purity criteria**5.1 General**

This document 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 can 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.

5.2 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 12932:2015, 5.2.1.

5.3 Impurities and main by-products

The water content shall be less than a mass fraction of 14 % of the product.

The sodium chloride content shall be less than a mass fraction of 0,05 % of the product.

5.4 Chemical parameters

The product shall conform to the requirements specified in Table 1.

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Table 1 — Chemical parameters

Element		Limit mg/kg of product	
		Type 1	Type 2
Arsenic (As)	max.	10	10
Cadmium (Cd)	max.	1	1
Chromium (Cr)	max.	6	10
Mercury (Hg)	max.	0,02	0,02
Nickel (Ni)	max.	3	3
Lead (Pb)	max.	4	4
Antimony (Sb)	max.	5	5
Selenium (Se)	max.	1	1

NOTE Cyanide, which does not exist in a strong oxidising medium such as sodium dichloroisocyanurate, dihydrate, is not a relevant chemical parameter. Pesticides and polycyclic aromatic hydrocarbons are not by-products of the manufacturing process. For parametric values of sodium dichloroisocyanurate on trace metal content in drinking water, see [2].

6 Test methods

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The sampling and the analytical methods are those described in EN 12932.

7 Labelling - Transportation - Storage

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7.1 Means of delivery

The product shall be delivered in fibre, polyethylene drums or semi-bulk containers.

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

7.2 Labelling according to the EU legislation ³

The following labelling requirements shall apply to sodium dichloroisocyanurate dihydrate at the date of the publication of this document.

³ See [3].