TECHNICAL REPORT

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Corrosion of metals and alloys — Overview of metal corrosion protection when using disinfectants

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Itre la c. Corrosion des métaux et alliages — Vue d'ensemble de la protection contre la corrosion des métaux lors de l'utilisation de désinfectants





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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 156, Corrosion of metals and alloys.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

This document provides information on protection against metal corrosion risks when disinfectants are used in response to infectious diseases.

Governments, regulatory agencies and other professional organizations around the world have issued guidelines in response to pandemics, but these contain no specific information on metal corrosion protection when using disinfectants.

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Corrosion of metals and alloys — Overview of metal corrosion protection when using disinfectants

1 Scope

This document provides an overview of the corrosivity of disinfectants and corrosion protection when using disinfectants, including an overview of test methods that can be used to determine their corrosivity.

This document is generic and applicable to organizations of all sizes in all industries, as well as to families and individuals, and it is intended to assist in determining appropriate health and safety measures regarding the use of disinfectants.

The resolution of security issues related to the use of disinfectants is outside the scope of this document.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

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

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

3.1

organization

company, corporation, firm, enterprise, authority or institution, person or persons or part or combination thereof, whether incorporated or not, public or private, that has its own functions and administration

[SOURCE: ISO 30000:2009, 3.10]

3.2

risk

combination of the probability of occurrence of harm and the severity of that harm

[SOURCE: ISO 15188:2001, 3.6]

3.3

disinfectant

agent capable of causing disinfection

[SOURCE: ISO 15190:2020, 3.8]

3.4

corrosivity

ability of an environment to cause corrosion of a metal in a given corrosion system

[SOURCE: ISO 8044:2020, 3.14]