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BSI Standards Publication

**Health informatics —
Identification of medicinal
products — Implementation
guidelines for data elements
and structures for the unique
identification and exchange
of regulated information on
substances**

National foreword

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**Health informatics - Identification of medicinal products -
Implementation guidelines for data elements and
structures for the unique identification and exchange of
regulated information on substances (ISO/TS 19844:2015)**

Informatique de santé - Identification des médicaments
- Lignes directrices pour la mise en oeuvre des
éléments de données et structures pour l'identification
unique et l'échange d'informations réglementées sur
les substances (ISO/TS 19844:2015)

Medizinische Informatik - Identifikation von
Arzneimitteln - Anwendungsleitfaden für die Struktur
und kontrollierten Vokabularien zur Identifikation und
Beschreibung von Substanzen und Inhaltsstoffen
(ISO/TS 19844:2015)

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European foreword

This document (CEN ISO/TS 19844:2015) has been prepared by Technical Committee ISO/TC 215 "Health informatics" in collaboration with Technical Committee CEN/TC 251 "Health informatics" the secretariat of which is held by NEN.

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Endorsement notice

The text of ISO/TS 19844:2015 has been approved by CEN as CEN ISO/TS 19844:2015 without any modification.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: [Foreword - Supplementary information](#)

The committee responsible for this document is ISO/TC 215, *Health informatics*.

Introduction

This Technical Specification is a guide for implementing ISO 11238, *Health informatics — Identification of medicinal products — Data elements and structures for the unique identification and exchange of regulated information on substances*. This Technical Specification was developed in response to a worldwide demand for guidance on the implementation of internationally harmonised specifications for medicinal products. It is one of a group of four implementation guides for a total of five ISO standards which together provide the basis for the unique identification of medicinal products. The other standards in this group are:

- ISO 11615, *Health informatics — Identification of medicinal products — Data elements and structures for the unique identification and exchange of regulated medicinal product information*
- ISO 11616, *Health informatics — Identification of medicinal products — Data elements and structures for the unique identification and exchange of regulated pharmaceutical product information*
- ISO 11239, *Health informatics — Identification of medicinal products — Data elements and structures for the unique identification and exchange of regulated information on pharmaceutical dose forms, units of presentation, routes of administration and packaging*
- ISO 11240, *Health informatics — Identification of medicinal products — Data elements and structures for the unique identification and exchange of units of measurement*

The standards for the Identification of Medicinal Products (IDMP) support the activities of medicines regulatory agencies worldwide by jurisdiction. These include a variety of regulatory activities related to development, registration and life cycle management of medicinal products as well as pharmacovigilance and risk management.

The business objective of this implementation guide is to provide a means for exchanging regulatory substance information. To meet the primary objectives of the regulation of medicines and pharmacovigilance, it is necessary to exchange medicinal product information in a robust and reliable manner.

For the purposes of this Technical Specification, all conditions (e.g. mandatory, conditional, optional) correspond to the necessary requirements to uniquely and unambiguously identify a substance. Implementation of the ISO IDMP standards may dictate that mandatory elements for identification be tagged as conditional or optional, based on regional requirements. If a section is identified as 'optional' but is implemented in a specific region, conformance described within that section is applicable. The scope of this Technical Specification is to identify the scientifically necessary elements for the unique identification of substances/specified substances.

Health informatics — Identification of medicinal products — Implementation guidelines for data elements and structures for the unique identification and exchange of regulated information on substances

1 Scope

This Technical Specification is used in the implementation of ISO 11238. This Technical Specification defines substances based on their scientific identity (i.e. what they are) rather than on their use or method of production.

ISO 11238 provides the conceptual framework for defining substances and specified substances and for assigning unique identifiers in the context of the ISO IDMP standards. ISO 11238 describes general concepts for defining and distinguishing substances and a high level model for the structuring of information for substances. This Technical Specification provides detailed explanations of each type or grouping of substance information, an element-by-element description for implementation of ISO 11238, and examples for a variety of substances and specified substances.

This first edition of the Technical Specification will only address substances, and Groups 1 to 3 of the specified substances as defined in ISO 11238 and Annexes A, B, C, and D. It is anticipated that specified substances Group 4, as defined in ISO 11238, will be addressed in a subsequent edition of this Technical Specification. Some information that would typically fall under specified substances Group 4 may be covered in the Annexes of this Technical Specification. This information, although not defining of either a substance or a specified substance Group 1, may be essential to distinguishing substances.

This Technical Specification addresses the following:

- Data elements necessary for defining substances and specified substances Groups 1 to 3;
- The logical use of data elements as defined in ISO 11238;
- Substances and specified substances Groups 1 to 3 business rules for
 - determining necessary data elements,
 - distinguishing and defining materials according to ISO 11238,
 - triggering the assignment of identifiers.

This Technical Specification does not address the following:

- Business processes for data management;
- Implementation of a specific data information system (e.g. a relational database schema);
- Normative messaging standards for substances;
- The maintenance of controlled vocabularies;
- The specific global identifier system that should be used;
- Nomenclature standards for substances.