International Standard

ISO 20560-1

Safety information for the content of piping systems and tanks —

Part 1: Piping systems

Informations de sécurité relatives au contenu des systèmes de tuyauteries et des reservoirs —

Partie 1: Systèmes de tuyauteries

Second edition
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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 document 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 145, *Graphical symbols*, Subcommittee SC 2, *Safety identification, signs, shapes, symbols and colours*.

This second edition cancels and replaces the first edition (ISO 20560-1:2020), which has been technically revised.

The main changes are as follows:

— the colour values for yellow in Table 2 have been modified;

— the colour values for maroon and yellow in Table 5 have been modified;

— the colour values in Table A.1 have been modified.

A list of all parts in the ISO 20560 series can be found on the ISO website.

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.

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Introduction

Continuous growth in mobility of labour has resulted in a need to standardize safety information and form a coherent system for non-verbal exchange of information that consists of distinct elements to identify hazards related to the content of piping systems and tanks. Every element of the safety information system defined in this document communicates specific information. When combined on a pipe marking, these elements inform the viewer, in a unique and simplified way, of potential hazards so that accidents can be prevented and an appropriate response to emergency situations can be efficiently accomplished.

The use of this document is expected to reduce risk by providing a means of improved training and education to reduce possible confusion for people working with and near piping systems in both normal and emergency situations.

The use of a standardized safety information system does not replace proper work methods, instructions or accident prevention training and measures. Education is an essential part of any system that provides safety information.

The national pipe marking standards of many different countries were reviewed during the development of this document. Important design concepts contained in these standards were incorporated into this document.

NOTE The statutory regulations of some countries can differ in some respect from the requirements given in this document.

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Safety information for the content of piping systems and tanks —

Part 1:
Piping systems

IMPORTANT — The colours represented in the electronic file of this document can be neither viewed on screen nor printed as true representations. For the purposes of colour matching, see Table 2 and Table 5, which provide colorimetric and photometric properties, and Annex A, which provides references from colour order systems.

1 Scope

This document specifies safety information for overground piping systems related to the content of the piping system and associated hazards for the purposes of accident prevention, reducing risks to health and providing information for use in case of an emergency.

This document does not cover piping that is buried.

Safety signing of the hazards in an area is not part of this document.

This document does not cover risk assessment.

This document can also be used for marine structures and ships.

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.

ISO 7010, *Graphical symbols — Safety colours and safety signs — Registered safety signs*

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
additional safety information
information typically presented in the form of text, numbers or both to indicate details related to the *safety information system* (3.8)

EXAMPLE Pressure or temperature.

3.2
additional technical information
technical information that is additional to the *safety information system* (3.8) to indicate technical details

EXAMPLE Pipe identification codes or from–to information.

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