

NFPA 430

Code for the Storage of Liquid and Solid Oxidizers

2004 Edition



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An International Codes and Standards Organization

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Code for the
Storage of Liquid and Solid Oxidizers
2004 Edition

This edition of NFPA 430, *Code for the Storage of Liquid and Solid Oxidizers*, was prepared by the Technical Committee on Hazardous Chemicals and acted on by NFPA at its May Association Technical Meeting held May 23–26, 2004, in Salt Lake City, UT. It was issued by the Standards Council on July 16, 2004, with an effective date of August 5, 2004, and supersedes all previous editions.

This edition of NFPA 430 was approved as an American National Standard on August 5, 2004.

Origin and Development of NFPA 430

At the 1969 NFPA Annual Meeting, the Sectional Committee on Storage, Handling and Transportation of Hazardous Chemicals obtained tentative adoption of a Code for the Storage and Transportation of Oxidizing Materials and Organic Peroxides, No. 499-T. Subsequently, the Sectional Committee decided to replace No. 499-T with two codes, one for the storage of liquid and solid oxidizers and the other for organic peroxides.

The text printed here contains those requirements that the Sectional Committee believes to be essential for the safe storage of liquid and solid oxidizers. It was processed in accordance with the NFPA Regulations Governing Committee Projects. A draft was adopted as a Tentative Code in 1971. In 1972, an amended version of the 1971 edition was adopted as a Tentative Code. The 1972 edition, with further revisions, was officially adopted by the Association in 1973. Amendments were adopted in 1974, 1975, and 1980.

For the 1990 edition of NFPA 43A, the Committee initiated a complete revision of the document that incorporated revised limits for the quantities of oxidizers stored in buildings, whether they are sprinklered or nonsprinklered. The limits were revised in consideration of the burning characteristics and loss experience this class of chemicals had demonstrated over the previous few years. In that edition, the Committee provided enhanced requirements for the storage of oxidizers in retail establishments. The Committee also included an enhanced list of typical oxidizers covered by this code in the appendix as a guide to users of the document.

The 1995 edition of NFPA 430 was a renumbering and revision of the former code NFPA 43A. It represented a complete revision of the document to update the requirements for the safe handling, fire prevention, and storage provisions for liquid and solid oxidizers. The edition incorporated new material into the document to reflect changes in protection technology, particularly in the requirements for sprinkler protection of oxidizers stored in rack storage configurations. The Committee completely revised the document to make it compatible with industry practices and to incorporate enhanced provisions for the safe handling and storage of liquid and solid oxidizers.

The 2000 edition of NFPA 430 contained new requirements for the storage and display of oxidizing materials in retail occupancies. These requirements, located in Chapter 7 of the document, addressed quantities of materials stored, location and arrangement of materials, and fire protection.

The 2004 edition of NFPA 430 contains new requirements for mercantile and industrial storage of oxidizers and new requirements for sprinkler control of storage in buildings that are required to have sprinkler protection. The 2004 edition also includes new annex material that provides more information on the behavior of oxidizers and emergency response and incident procedures.