



*NSF International Standard /
American Water Works Association/
American National Standard*

NSF/AWWA/ANSI 416 - 2017

Sustainability Assessment for Water
Treatment Chemical Products



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for Sustainability –

Sustainability assessment for water treatment chemical products

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Foreword²

This American National Standard, NSF/AWWA/ANSI 416 Sustainability Assessment for water treatment chemicals has been created to address sustainability of the manufacturing, distribution, repackaging, relabeling and end of life for a water treatment chemical. The Standard provides requirements sustainability for environmental, human health and social responsibility criteria. This Standard was developed as a collaborative partnership with the American Water Works Association and NSF International.

NSF Sustainability draws upon this expertise in standards development, product assurance and certification, advisory services and management systems to help companies green their products, systems and supply chains. NSF, through the National Center for Sustainability Standards, has developed sustainability standards for green chemicals, building products and materials and drinking water quality. NSF works with leading regulators, scientists, engineers, public health and environmental health professionals and industry representatives to develop these transparent, consensus-based standards.

This edition of the Standard includes the following revision:

Issue 4

A reference to NSF/ANSI 50 was corrected to read NSF/ANSI 60 in Section 7.2.

Suggestions for improvement of this Standard are welcome. This Standard is maintained on a Continuous Maintenance schedule and can be opened for comment at any time. Comments should be sent to Chair, Joint Committee on Water Sustainability - Chemicals, NSF International, National Center for Sustainability Standards at ncss@nsf.org, or P.O. Box 130140, Ann Arbor, Michigan 48133-0140, USA.

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Consortium Organizations

AWWA

Established in 1881, the American Water Works Association is the largest nonprofit, scientific, and educational association dedicated to managing and treating water, the world's most important resource. With approximately 50,000 members, AWWA provides solutions to improve public health, protect the environment, strengthen the economy and enhance our quality of life.

NSF International

NSF International has been testing and certifying products for safety, health and the environment for more than 65 years (www.nsf.org). As an independent organization, NSF's mission is to protect public health and the environment through standards development, inspection, management systems auditing, testing and certification for industries including food, water, building materials, retail, chemicals, automotive, aerospace, consumer products and health sciences. Operating in more than 120 countries, NSF is committed to protecting public health worldwide.

NSF/AWWA/ANSI Sustainability Standard

Sustainability assessment for water treatment chemical products

1 General

1.1 Purpose

The purpose of this Standard is to provide a framework for collecting data and communicating information on the sustainable attributes of a water treatment chemical product, whether repackaged, relabeled and/or distributed and can be from one or more facilities (locations). Such information is expected to encourage the demand for and supply of water treatment chemical processes that have a reduced impact on the environment and society, thereby stimulating the potential for market-driven continuous improvement.

This Standard is intended to be science based, provide transparency, and offer credibility for manufacturers in making environmental claims and to harmonize the principles and procedures used to support such claims.

Sustainability-related information can contribute to a manufacturer's decisions about supply chain modifications, product(s) content changes, manufacturing adjustments, performance improvements, end-of-life options, and corporate governance, with the goal of more sustainable chemical products.

Within the same facility, the chemical product may be manufactured, relabeled, repackaged. Each step has the opportunity to claim credit (see section 4) toward conformance.

This Standard is intended to be used primarily by water treatment chemical product manufacturers interested in understanding and improving the sustainability of their chemical products and manufacturing processes as well as distributors, repackagers, and relabelers. Independent auditors, certification bodies and environmental labeling organizations are also potential users in support of market-based sustainability claims. This Standard may also be used by purchasers and consumers who wish to ensure that manufacturers are accurately declaring the sustainable nature of the manufacture of their chemical products.

1.2 Scope

This Standard establishes a consistent approach to the evaluation and determination of environmentally preferable and sustainable chemical product manufacturing processes, water treatment chemical products, distributors, repackagers, and relabelers of chemical products. Many of these water treatment chemical products are used for public health protection. The document includes relevant criteria across the product(s) life cycle from raw material extraction through manufacturing, use, and end-of-life management. The intended use of this Standard is to show that the product, manufacturing processes, distribution, repackaging/relabeling, and corporate practices of a water treatment chemical product manufacturer are more sustainable.