

# WHO HAND SANITIZER PACKAGING

While the COVID-19 pandemic is changing how the Food & Beverage industry approaches cleaning and sanitizing, your key priorities of safe food and employee health remain constant. With the goal of increasing customer accessibility to hand sanitizer, Ecolab is producing a hand sanitizer formulated in accordance with World Health Organization (WHO) requirements: Alcohol Antiseptic 80% Topical Solution hand sanitizer.

## ▶ A FOUNDATION OF SAFETY

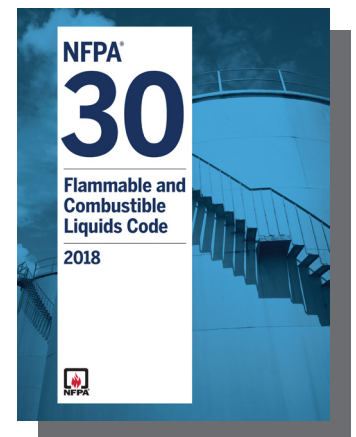
Safety is Ecolab's number one priority and drives decisions about everything we do.

According to the guidelines set forth by the National Fire Protection Association (NFPA), an 80% ethanol content and flashpoint lower than 100°F (38°C) deems the WHO hand sanitizer formulation flammable so special precautions need to be followed when storing and transferring large volumes of the hand sanitizer.

Prior to identifying a steel drum as the safest container from which Ecolab customers can store, transfer, and dispense the WHO hand sanitizer formulation, Ecolab Packaging Engineers, Research & Development Teams, and Safety Group consulted the NFPA® 30 *Flammable and Combustible Liquids Code*. Additionally, the NFPA 30 provides safeguards to reduce the hazards associated with the storage, handling, and use of flammable and combustible liquids. These guidelines are enforceable under OSHA and many state and local regulations.<sup>2</sup>

## NFPA 30 FLAMMABLE AND COMBUSTIBLE LIQUIDS CODE<sup>1</sup>:

- Flammable and combustible liquids in volumes between 5.3 gal (20 L) and 119 gal (450L) are to be stored in steel drums.
- Storing in other container types such as rigid plastic or composite is not permitted due to the potential for static electricity.



## ▶ SAFELY TRANSFERRING WHO HAND SANITIZER

In addition to packaging guidelines set forth by officials; when dispensing, handling, and transferring large volumes of flammable or combustible liquids, precautions must be taken to prevent static electricity and ensure compliance. The NFPA 30 states that all metal equipment where potential exists for an ignitable mixture must be bonded and grounded<sup>2</sup>.

Please contact your Ecolab representative with questions.

<sup>1</sup>National Fire Protection Association, *NFPA 30 Flammable and Combustible Liquids Code*, 2018, p.32

<sup>2</sup>National Fire Protection Association, *NFPA 30 Flammable and Combustible Liquids Code*, 2018, 18.4; 18.5.2.2