Global Standards Trade Item Labeling and Barcode Requirements

for pharmaceuticals, medical devices, sterile kits and laboratory reagents

HELPFUL TERMS
HRI: Human Readable Interpretation; the printed characters that accompany a barcode or other data carrier
GTIN: Global Trade Item Number, the GS1 key that uniquely identifies a product
Trade Item: Trade items are products and services that may be priced, ordered, or invoiced at any point in the supply chain

PRIMARY PACK
Primary packaging is the first level of packaging that is in direct contact with the item.
Data carrier required only when the item is supplied in cartonless packaging.
GS1 DataMatrix symbology encoded with and printed as HRI:
(01) GTIN
(10) Batch/lot
(17) Expiration date
(21) Serial number\(^1\)

SECONDARY PACK
Secondary packaging is a level of packaging that may contain one or more primary packages, or a group of primary packages containing a single item
GS1 DataMatrix symbology encoded with and printed as HRI:
(01) GTIN
(10) Batch/lot
(17) Expiration date
(21) Serial number\(^1\)

MIXED OR PARTIAL TERTIARY PACK
Tertiary packaging refers to upper levels of the packaging hierarchy. Mixed or partial tertiary packaging may be:
• Partial – consisting of a homogenous pack of items that is not to be considered a trade item because it is less than full
• Mixed – either more than one unique trade item or entirely the same trade item with different batch numbers or expiration dates

HOMOGENEOUS TERTIARY PACK
Tertiary packaging refers to upper levels of the packaging hierarchy. Homogenous tertiary packaging may be:
• A pallet that contains (one or usually) several cases
• A case that contains (one or usually) several items in the items' primary or secondary packaging
GS1 DataMatrix or GS1-128 barcode symbology encoded with and printed as HRI:
(01) GTIN
(10) Batch/lot
(17) Expiration date
(21) Serial number\(^1\)

\(^1\)mandatory for pharmaceuticals only
Global Standards Logistic Unit Labeling and Barcode Requirements
for pharmaceuticals, medical devices, sterile kits and laboratory reagents

HELPFUL TERMS
HRI: Human Readable Interpretation; the printed characters that accompany a barcode or other data carrier
SSCC: Serial Shipping Container Code; a unique identification key used to identify logistic units
GTIN: Global Trade Item Number; the GS1 key that uniquely identifies a product
Count: The total number of contained trade items identified by the GTIN
Logistic Unit: An item of any composition established for transport and/or storage that needs to be managed through the supply chain
Homogenous: A logistic unit containing one or more trade items with the same batch and/or expiration date
Heterogeneous: A logistic unit containing multiple different trade items and/or one trade item that varies by batch and/or expiration date

EXAMPLE GS1 LOGISTIC LABEL

[Brand Name] [Product Name]

Manufactured by:
Factory XYZ
Address
Address

Manufactured for:
Recipient Name
Address
Address

SSCC
00614111234567890

CONTENT
1085764002017

EXPIRY
31 Oct 2025

Batch/LOT
NYFUL01

COUNT
50

See the Global Standards Technical Implementation Guideline for Global Health Commodities for additional information on how to apply the logistic unit guidance in different scenarios.

*Per the GS1 General Specifications Section 2.2.1, Individual logistics units, a GS1 DataMatrix symbol MAY be included in addition to the GS1-128 symbol.
Global Standards Trade Item Labeling and Barcode Requirements

for long-lasting insecticide-treated nets (LLINs)

HELPFUL TERMS

HRI: Human Readable Interpretation; the printed characters that accompany a barcode or other data carrier

GTIN: Global Trade Item Number, the GS1 key that uniquely identifies a product

Trade Item: Trade items are products and services that may be priced, ordered, or invoiced at any point in the supply chain

SSCC: Serial Shipping Container Code; a unique identification key used to identify logistic units

TERIARY PACK LOGISTICS
UNIT (BALE)

GS1-128 linear barcode

GTIN-14

Production Date

Batch Number

Count of contained items

GTIN of contained items

Production Date

Batch Number

Count of contained items

(00) SSCC

(01) GTIN of contained items

(37) Count of contained items

(10) Batch/lot number

(11) Production date

PRIMARY PACK
(BAG WITH LLIN)

GS1 DataMatrix symbology encoded with and printed as HRI:

(01) GTIN

(10) Batch/lot number

(11) Production date

INDIVIDUAL LLIN

GS1 DataMatrix symbology encoded with and printed as HRI:

(01) GTIN

(10) Batch/lot number

(11) Production date

(21) Serial number

1 for long-lasting insecticide-treated nets (LLINs)